

# Undergraduate Catalog 2014-15

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**SOUTHERN**  
ADVENTIST UNIVERSITY

**Power for Mind & Soul**

# Southern Offers

Southern Adventist University is a co-educational institution established by the Seventh-day Adventist Church, offering doctoral, master's, baccalaureate, associate degrees, and one-year certificates.

## The Mission

Southern Adventist University as a learning community nurtures Christ-likeness and encourages the pursuit of truth, wholeness, and a life of service.

## Vision

Southern Adventist University, responsive to its diverse constituencies, will provide high quality educational benefit, lead in the integration of faith and learning, and model academic and professional excellence. The institution will graduate servant leaders guided by faith and integrity, and committed to living balanced lives.

## Core Values

- A Christ-centered, Seventh-day Adventist campus
- Academic and professional excellence
- Hospitality and service
- Affordable education
- Balanced lifestyle

## Educational Philosophy

Rooted in its theological understanding of God and humanity, the educational philosophy of the Seventh-day Adventist church is summarized as follows:

- God, the Creator and Sustainer of the universe, is the Source of all knowledge.
- Created in the image of God for the purpose of communion with Him, humanity has sinned and has separated from Him.
- Through infinite love, God sent His Son to restore this relationship with us—a personal relationship that begins now and continues throughout eternity.

Within the context of this theological understanding, education is viewed as an essential element of redemption, and must focus on developing the whole person. Through harmonious development of the physical, mental, and spiritual, and social dimensions, the individual becomes better equipped to bring wholeness to a broken world.

## Institutional Goals

Southern Adventist University will

- **Learning Community**  
nurture campus learning communities that engage students with ideas that mark educated persons, global and multicultural perspectives, and advanced technology to develop both ethical principles and intellectual flexibility.
- **Faculty and Staff**  
hire and develop a competent and diverse faculty and staff who model balanced

ethical lives, integrate faith and learning, demonstrate scholarship through teaching, research, and other scholarly and creative activities, and celebrate and energize the student spirit as they respect and support the different ways students develop their minds, their persons, and their citizenship.

- **Students**  
recruit, retain, and support a capable, diverse student body.
- **Campus Environment**  
provide a safe, nurturing learning community of faith for students, faculty, and staff.
- **Student Service**  
enable every student to participate in local service and/or mission service activities.
- **Partnerships**  
pursue and nurture partnerships with alumni, church, community, business and industry, civic organizations, and government in order to analyze, project, and respond to changing needs to help ensure that graduates are prepared for a life of service.
- **Stewardship**  
steward resources entrusted to the university through effective fiscal management to fulfill its mission, vision and goals.

## Student Learning Goals

Undergraduate students of Southern Adventist University will

- **Spiritual**  
grow in a vibrant relationship with the Lord Jesus Christ, while integrating into their lives Bible-based beliefs and values as understood by the Seventh-day Adventist church.
- **Intellectual**  
develop a commitment to life-long-learning and demonstrate a mastery of the cognitive skills of critical reasoning, independent thinking, reflective judgment, communication, and creativity needed to confront the issues, ideas, and values of historical and contemporary civilization.
- **Occupational**  
exhibit excellence and moral leadership in their chosen field of study and/or profession.
- **Social**  
develop socio-emotional maturity that will enable them to be effective leaders and contributing members of their churches, families, groups, and communities in a global society.
- **Physical**  
take responsibility for their own well-being through a health-promoting lifestyle.

## University History

In 1892 the educational venture that developed into Southern Adventist University had its beginning in the small village of Graysville, Tennessee. The school

became known as Graysville Academy. In 1896 the name was changed to Southern Industrial School and five years later to Southern Training School.

In 1916 because of limited acreage available for further expansion of plant facilities, the school was moved to the Thatcher farm in Hamilton County, Tennessee. The name "Collegedale" was given to the anticipated community. At its new location, the school opened as Southern Junior College and continued as such until 1944 when it achieved senior college status and the name was changed to Southern Missionary College. In 1982 the name was changed to Southern College of Seventh-day Adventists.

In 1996 graduate studies were added to the curriculum and the name was changed again, this time to Southern Adventist University. In 2012, a doctor of nursing practice was added to the curriculum.

## Setting

Southern Adventist University's one-thousand-acre Collegedale campus is nestled in a valley 18 miles east of Chattanooga. The quietness and beauty of the surroundings are in keeping with the University's educational philosophy.

## Accreditation and Memberships

Southern Adventist University is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award one-year certificates, associate, baccalaureate, master's and doctoral degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of Southern Adventist University.

It is also accredited by the Accrediting Association of Seventh-day Adventist Schools, Colleges, and Universities. Additional information regarding the University may be obtained by contacting the State Board of Independent Colleges and Universities, Department of Education, Tallahassee, FL 32399 (850.488.8695).

Schools and departments of the University are also accredited by various organizations as follows:

- Southern Adventist University has received accreditation for its business and business-related programs through the International Assembly for Collegiate Business Education (ACBE), Olathe, Kansas. The following degree programs are accredited by the IACBE:
  - Bachelor of Business Administration degree
  - Bachelor of Science degrees in Business Administration, Corporate Community Wellness Management, Long Term Care Administration, and Sports Studies
  - Master of Business Administration
  - Master of Financial Management
  - Master of Science in Administration
- The Long Term Care Administration program is accredited by the National Association of Boards of Examiners of Long Term Care Administrators.
- The School of Computing's B.S. in Computer Science program (including both the Computer Science and Embedded Systems concentrations) is accredited

by the Computing Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012-telephone: 410.347.7700.

- The School of Education and Psychology is accredited by the National Council for Accreditation of Teacher Education (NCATE), [www.ncate.org](http://www.ncate.org). This accreditation covers initial teacher preparation and the advanced educator preparation programs Literacy Education and School Counseling. The University is approved by the Tennessee State Board of Education for the preparation of secondary and elementary teachers.
- The School of Music is a fully-accredited member of the National Association of Schools of Music.
- The Associate of Science, Bachelor of Science, and Master of Science degree programs in nursing are accredited by the Accreditation Commission for Education in Nursing (ACEN), 3343 Peachtree Road, NE, Suite 850, Atlanta, GA 30326. The School of Nursing is an agency member of the Council of Baccalaureate and Higher Degree Programs and the Council of Associate Degree Programs of the National League for Nursing. The School of Nursing is approved by the Tennessee Board of Nursing.
- The Bachelor of Science in Physical Education is NCATE accredited. The bachelor degrees in Corporate/Community/Wellness Management and Sport Studies, offered in conjunction with the School of Business and Management, are accredited by the International Assembly for Collegiate Business Education. The Bachelor of Science in Corporate/Community Wellness Management as an accredited academic program by the National Wellness Institute. All of these graduates are Certified Wellness Practitioners.
- The Social Work program is accredited by the Council of Social Work Education.

Southern Adventist University is also a member of the Association of American Colleges, the American Council on Education, the Tennessee College Association, and the American Association of Colleges for Teacher Education.

## Academic Program

Southern Adventist University offers 1 doctor of nursing practice with 3 emphases, 11 master's degree programs with 27 emphases, 63 baccalaureate degree majors, 57 minors, 17 associate degree majors, and 3 one-year certificates. Additional preprofessional and terminal curricula are available to students seeking admission to professional schools. (See "Degrees and Curricula"). Twelve departments/schools offer secondary teaching certification.

## Online Learning

Online learning includes undergraduate and graduate programs located on national and international Seventh-day Adventist college and university campuses as well as online courses and degrees. The online learning program provides the same quality of educational experience as the main campus to those students who cannot attend classes in Collegedale.

## Students

Fifty-four percent of the students of Southern Adventist University come from the eight states constituting the Southern Union Conference of Seventh-day

Adventists. However, most of the additional states and 48 foreign countries are also represented. The ratio of men to women is 44% to 56%.

Former Southern Adventist University students are now serving in the ministerial, teaching, medical, and other services of the Seventh-day Adventist Church at home and abroad. Others are engaged in advanced study, business pursuits, government service, research activities, private and institutional medical services, and the teaching professions on all levels.

## Facilities

The following buildings house the academic and other activities of the University:

- Brock Hall-Visual Art and Design, Business and Management, English, History and Political Studies, Journalism and Communication
- Daniells Hall-Social Work
- Florida Hospital Hall-Nursing
- Hackman Hall-Religion
- Hickman Science Center-Biology, Chemistry, Computing, Mathematics, Physics and Engineering
- Hulsey Wellness Center-Gymnastics Center, Physical Education, Health and Wellness
- J. Mabel Wood Hall-Music
- Ledford Hall-Technology
- Lynn Wood Hall-Heritage Museum, Advancement, Alumni, Development, Learning Success Services/Counseling and Testing
- McKee Library-Main Campus Library
- Miller Hall-Modern Languages
- Sanford & Martha Ulmer Student Center-Computer Center, Campus Ministries, Dining Hall, student activity rooms, K.R.'s Place
- Summerour Hall-Education and Psychology, Family Studies, Teaching Material Centers
- William Iles Physical Education Center- Gymnasium, Swimming Pool
- Wright Hall-Administration

Other facilities on or near campus that may serve student needs:

- Campus Services-Security
- Charles Fleming Plaza-shopping center with businesses serving the University and community. Includes:
  - Adventist Book Center
  - Campus Kitchen-fast food
  - Campus Shop-student bookstore and gift shop
  - Collegedale Credit Union
  - Quick Print
  - United States Post Office
  - Village Market with grocery, deli, bakery
  - Collegedale Academy-secondary laboratory school
- Collegedale Korean Church

- Collegedale Seventh-day Adventist Church Recreational Area-tennis courts, track, playing field
- Southern Village-student housing
- Arthur W. Spalding Elementary School-laboratory school
- Spalding Cove Apartments-married student Housing
- Spanish-American Seventh-day Adventist Church
- Student Apartments
- Student Park
- Talge Hall-men's residence hall
- Thatcher Hall-women's residence hall
- Thatcher South-women's residence hall
- University Health Center-health services
- Winding Creek Apartments-married student housing

### **Something to keep in mind -**

Although this CATALOG is not a textbook, you will refer to it often during your university career. It describes the academic program you select and the requirements you must fulfill to graduate. Before you enroll at Southern or register for any succeeding semester, you should satisfy yourself that you are familiar with this Catalog.

Two important parts of your academic life are General Education and your field of concentration. You will find it especially valuable to read carefully the sections of the Catalog that explain these programs.

Every attempt has been made to prepare this Catalog so everyone may understand it, but some of the information may still be confusing to you. Also, because changes may occur in your program requirements, you may encounter contradictions between this Catalog and advice that you later receive. Talk to someone about the sections of this Catalog that are not clear.

The first person to talk to is your academic adviser. You may also find help from the chair/dean of your department/school. It may be necessary to visit with the Director or Assistant Director of Records and Advisement. The Vice President and Associate Vice President for Academic Administration are also available to assist you. If you need explanations about financial questions, talk with the Vice President of Enrollment Services or the Director of Student Finance.

Remember that you are the one who selects your program of study and it is your responsibility to know the graduation requirements and meet them.

In publishing this catalog, every reasonable effort has been made to be factually accurate. The publisher assumes no responsibility for editorial, clerical, or printing errors. The information presented is, at the time of printing, an accurate description of course offerings, policies, and requirements of Southern Adventist University. The provisions of this catalog, however, are not to be regarded as an irrevocable contract between the university and the student. The university reserves the right to change any provision or requirement at any time, without prior notice.

# Academic Calendar

## 2014-15 School Year

The Southern Adventist University summer term consists of three sessions. Students in attendance during the 2013-14 school year may register online on April 14 until the session begins.

### 1st Summer Session, 2014

Apr 14-May 5	Registration
May 5	Classes Begin
May 7	Last Day to Add a Course/Fee for Class Change
May 16	Last Day to Drop
May 30	Classes End

### 2nd Summer Session, 2014

Jun 2	Online Registration Opens for Fall 2014
Apr 14 - Jun 2	Registration for Summer Session 2
Jun 2	Classes Begin
Jun 4	Last Day to Add a Course/Fee for Class Change
Jun 13	Last Day to Drop
Apr 14 - Jun 30	Registration for Summer Session 2
Jun 30	Classes Begin
Jul 2	Last Day to Add a Course/Fee for Class Change
Jul 11	Last Day to Drop
Jul 25	Classes End

### 3rd Summer Session (SmartStart), 2014

July 20	JumpStart Enrollment Services, 12:00 - 2:00 p.m.
July 20	Registration for BIOL 101
July 21	Classes Begin in BIOL 101
July 27	SmartStart Enrollment Services, 10:00 a.m. - 2:00 p.m.
July 28	Classes Begin
July 30	Last Day to Add a Course/Fee for Class Change
Aug 8	Last Day to Drop
Aug 20	Classes End
Aug 26	All Summer Session Grades Due 5:00 p.m.

### 1st Semester

Aug 7	ACT Exam, 1:00 p.m.
Aug 8-15	University Colloquium
Aug 20-22	Freshman/Transfer Orientation
Aug 20-24	Online Registration for Non-registered Students
Aug 25	Classes Begin
Aug 28	ACT Exam, 1:00 p.m.
Sep 2	Fee for Class Change and "W" Show on Transcript
Sep 8	Last Day to Add a Class



Sep 22-24	View Southern
Oct 14	Senior Class Organization 11:00 Lynn Wood Hall
Oct 16	Mid-term Ends
Oct 17-19	Mid-semester Break
Oct 23-26	Alumni Homecoming
Oct 24	Deadline to request Dec/May Graduation at Records Office
Oct 30	Last Day to Drop
Nov 4-5	Seniors Pre-Registration>93 hours
Nov 6-7	Juniors Pre-Registration>54 hours
Nov 10-11	Sophomores Pre-Registration>23 hours
Nov 12-14	Freshmen Pre-Registration<24 hours
Nov 17	Online Registration for W15 opens for New/Transfer Students
Nov 24-30	Thanksgiving Vacation
Dec 14-17	Semester Exams
Dec 17	Commencement, 7:00 p.m.
Dec 18-Jan 11	Christmas Vacation
Dec 24-Jan 1	Wright Hall Closed
Dec 22	Fall Semester Grades due by 5:00 p.m.

## 2nd Semester

Jan 11	Enrollment Activities for New Students, 10 a.m. - 2 p.m. Wright Hall
Jan 12	Classes Begin
Jan 19	Martin Luther King, Jr. Day/No Class/Community Service Day
Jan 21	Fee for Class Change and "W" Show on Transcript
Jan 26	Last Day to Add A Class
Mar 5	Mid-term Ends
Mar 6 - 15	Spring Break
Mar 26	Last Day to Drop
Mar 31-Apr 1	Senior Pre-Registration>93 hours
Apr 2-3	Junior Pre-Registration>54 hours
Apr 6-7	Sophomores Pre-Registration>23 hours
Apr 6	Senior Deadline for Correspondence/Incompletes/Home Study
Apr 8-10	Freshmen Pre-Registration<24 hours
May 3-6	Semester Exams
May 10	Commencement/Semester Ends
May 12	Winter Semester Grades Due by 5 p.m.

## May 11-Aug 19 Summer Sessions 2015

# Admissions

Southern Adventist University welcomes applications from students who seek a university career that unites spirituality and academic integrity and who commit themselves to an educational program designed according to Christian principles as taught by the Seventh-day Adventist Church. The university does not discriminate in admissions on the basis of age, gender, race, color, ethnic or national origin, religion, or handicap.

## Admission of Freshman Students\*

For priority processing and scholarship consideration, applications of incoming freshmen should be submitted by March 1 for the fall semester. There is no priority deadline for the winter or summer semesters. Applications will no longer be accepted for the fall, winter, or summer semester upon the first day of classes.

Applicants for regular admission as freshmen (less than 24 college credits) must satisfy one of the following three conditions at the time of enrollment:

### Regular Acceptance

1. Graduate from an approved secondary school with a GPA of at least 2.50 (on a 4.00 scale) in major subjects,\*\* and have a minimum composite ACT (American College Test) of 18 or an SAT (Scholastic Aptitude Test) of 870 (Critical Reading and Math) or 1290 (Critical Reading, Math, and Writing)
2. Pass the General Education Development (GED) test with a minimum score of 410 on each section and an average of 500 overall (2500 total standard score points) and have a minimum composite ACT (American College Test) of 18, or an SAT (Scholastic Aptitude Test) of 870 (Critical Reading and Math) or 1290 (Critical Reading, Math, and Writing). Each GED applicant must have an official transcript of his or her grades and credits sent to the Enrollment Services Office from the high school most recently attended.
3. Applicants who have completed high school in a home school setting must have an ACT minimum composite test score of 18, or an SAT score of 870 (Critical Reading and Math), or 1290 (Critical Reading, Math, and Writing), and submit a portfolio with the following documents:
  - If the student participated in or completed a course of study through a correspondence school, the student must submit an official transcript from that school. If the student was taught partially or completely within the home, then it will be necessary to create a transcript of class work of the entire high school experience. Include course description, when the course was taken, as well as grade achieved. For example, "Algebra I: Fall, 2013, B+, 1 unit". The home school transcript must show the graduation date and be signed and dated by one of the parents.
  - A written statement reflecting on the value the student received from his or her home school experience.

*\*Those planning to enter professions such as business and management, computing, education, journalism and communication, nursing, music education, or religion should also consult the respective school for any additional admission requirements.*

*\*\*Major subjects: English, mathematics, natural science, religion, social science, and foreign language.*

### Conditional Acceptance

1. If either the high school GPA, GED, or ACT/SAT composite score is below the minimum requirements as stated above, the student must appeal to the Admissions Committee.
2. Conditionally accepted students must attend JumpStart, a five week summer session that begins before the fall semester. This session will include a free three-hour course (SmartStart) as well as a special Academic Power Tools (APT) class. The following criteria will be used in placing conditional standing students for the fall semester:
3. Those that receive an earned grade of at least a “C” in both the three-hour SmartStart class and the APT class will be allowed to enroll in the fall semester as a student in good academic standing.
  - Those that receive an earned grade lower than a “C” in either the three-hour SmartStart class or the APT class will have their enrollment status for the fall 2014 semester reviewed by the Academic Review Committee for a final admissions decision.
  - Those that receive an “F” in the three-hour SmartStart class or the APT class will be academically dismissed prior to the fall semester.

### Subjects Required for Admission

Applicants to freshman standing must have, at the minimum, the following subjects in their secondary program:

1. Three units of English, excluding journalism and communication.
2. Two units of mathematics, one of which must be algebra. If Algebra 1 has not been taken, MATH 080 must be taken to make up for this deficiency.
3. Two units of science. A college class in biology, chemistry, or physics must be taken in addition to general education science requirements if this condition is not met.
4. Two units of social studies.
5. Two units in a foreign language are required for a B.A. degree. If deficient, one year of a foreign language at the college level will be required.
6. Computer competency is strongly recommended.

### Admission of Transfer Students

For priority processing and scholarship consideration, applications of transfer students should be submitted by June 1 for the fall semester. There is no priority deadline for the winter or summer semesters. Applications will no longer be accepted for the fall, winter, or summer semester upon the first day of classes.

### Regular Acceptance

Transfer students must submit a transcript from an officially accredited college or university, with evidence of a GPA of 2.00 in major subjects, as well as a minimum composite ACT (American College Test) of 18 or an SAT (Scholastic Aptitude Test) of 870 (Critical Reading and Math) or 1290 (Critical Reading, Math, and Writing) prior to registration. Students who have a transfer GPA of 2.50 or above in 12 hours of major subjects such as general education courses offered at Southern in general education areas I or S (see Catalog under General

Education), may be exempt from the ACT/SAT requirement unless required by individual department or school.

### **Conditional Acceptance**

1. If either the college GPA or ACT/SAT composite score is below the minimum requirements as stated above, the student must appeal to the Admissions Committee.
2. Conditionally accepted students may take no more than 13 semester hours during the first semester.
3. Conditionally accepted students are required to take Academic Power Tools—a class designed for students who want to learn to be successful in college. An additional fee for this class is required that is not included in tuition charges.

### **Transfer Credits**

Transfer credits may be applied toward the requirements for a degree when the student has satisfactorily completed a minimum of 12 semester hours in residence. Credit by examination taken at other colleges will be accepted according to Southern Adventist University standards (see “University Credit by Examination” in the Academic Policies section of the Catalog). A maximum of 72 semester hours may be accepted from a college where the highest degree offered is the associate degree. Background deficiencies revealed by transcripts and entrance examinations will be given individual attention.

The criteria for evaluating transfer work from an accredited school is based on guidelines given in Transfer Credit Practices AACRAO 2012 guide. The ACE recommendation guide is used for evaluating transcripts for the veterans of the armed forces. Credit may be considered for courses taken at institutions which are not regionally accredited only after the student has completed at least 16 semester hours at Southern Adventist University with a 2.00 or better average. Transfer courses that are comparable to Southern Adventist University courses may be recorded with an earned grade of “C-” or higher. All college transfer work from Tennessee will be recorded to meet the requirements of the HOPE scholarship. Transfer credit from international foreign schools must be evaluated by a credentialed foreign evaluator. As a general rule, accredited international institution credit is usually issued with pass/fail grades.

A student who has been dismissed from another institution because of poor scholarship or citizenship, or who is on probation from that institution, is not generally eligible for admission until s/he can qualify for readmission to the institution from which s/he has been dismissed.

Transfer students must submit both their official college and high school transcripts to the Enrollment Services Office before being allowed to continue registering for classes.

### **Admission of Non-Degree Students**

Individuals who do not meet the above University admission requirements and who do not wish to become degree candidates, but who may desire limited credit for transfer to another institution of higher learning, may be allowed to register as non-degree students. A non-degree student may enroll for a maximum of five semester hours per term.

## Admission of International Students

The application deadline for international students is June 1 for the fall semester and October 1 for the winter semester. An international student must also complete the acceptance process no later than July 1 for the fall semester or November 1 for the winter semester otherwise an I-20 will not be processed for that semester.

In addition to meeting the freshman or transfer acceptance criteria, an international student must send official records of all credits, degrees, diplomas and other credentials. Since certificates and records filed for examination are not ordinarily returned, applicants should send certified copies if the documents in question cannot be easily replaced. These documents must also be submitted through one of the following credential evaluation services before an admission decision is determined\*:

- Foreign Credits ([www.foreigncredits.com](http://www.foreigncredits.com))—Secondary and post-secondary course work must be submitted using Course-by-Course evaluation.
- World Education Services ([www.wes.org](http://www.wes.org))—Document-by-Document evaluation is required from students that have NOT completed any post-secondary education; otherwise, Course-by-Course evaluation is required.

Proficiency in English, both written and oral, must be proven before admission. This may be done by taking the Test of English as a Foreign Language (TOEFL) Internet-Based Test (IBT). Students whose TOEFL IBT score is 79 or higher meet the official admission level.

*\*Documents from institutions located in Canada, Bermuda, and the Bahamas are exempt from using the evaluation services.*

### F1 Visa International Student I-20 Process

All students desiring an I-20 must meet the following criteria.

1. Be academically accepted
2. Submit legible copy of passport
3. Submit Declaration of Finances form to document available funding sufficient to pay all expenses at Southern
4. Submit bank statements that gives evidence of support to the financial claims on the Declaration of Finances
5. Pay the \$3,000 International Student Deposit required of all non-U.S. citizens, except for citizens of Canada, Bermuda, and the Bahamas

All F1 visa status students are required by current immigration laws to be enrolled in a full course study (a minimum of 12 hours) for each semester in attendance. NOND 080 - Academic Power Tools, may count as part of the international student's load.

According to current immigration laws, international students with student visas may work on campus provided that employment is available, and provided that the student is enrolled in a full course of study (minimum of 12 hours) for each semester in attendance and is making progress to the completion of a degree. On-campus employment is limited up to 20 hours per week when there are regular classes held. Such employment may be full time (up to 40 hours per week) during school vacation periods provided that the student intends to register for the subsequent academic semester. The Human Resources Office monitors

hours worked and notifies the student and the campus employer when a student works in excess of 20 hours per week. If a student's work exceeds 20 hours per week, the student will become out of status with United States Citizenship and Immigration Services (USCIS). Spouses may work only if they have a student visa (or other eligible visa) of their own.

International students on non-immigrant visas are required by law to secure permission before accepting any off-campus employment.

International students should not leave their homeland until they have in their possession:

1. An admissions letter of acceptance from Southern Adventist University
2. Form I-20 (from Southern Adventist University)
3. A valid passport
4. A valid visa to travel to the United States

In addition to regular University expenses, there are other expenses for an international student. (Please refer to the Financing Your Education section of the Catalog.)

### **Admission of English as a Second Language (EESL) Students**

Students that meet the admission criteria of an international student except for the TOEFL requirements can be accepted as an English as a Second Language (EESL) student if they have a TOEFL IBT score between 45 and 78 (PBT 450-549). EESL students must enroll as special advisees of the English Department which administers the language classes. Students whose TOEFL IBT scores are below 45 (PBT 450) are not eligible for admission to the University. See English as a Second Language Program (EESL) in the English Department section of the Catalog for additional EESL information.

### **Admission to the Schools**

Students majoring in a specific School should refer to that section of the Catalog for requirements pertaining to the admission into that School. The following Schools are:

- Business and Management
- Computing
- Education and Psychology
- Journalism and Communication
- Music
- Nursing
- Physical Education, Health and Wellness
- Religion
- Social Work
- Visual Art and Design

### **Extension Classes**

Extension classes are university classes offered on the campuses of Southern Union academies as an opportunity for seniors to earn university credit in skills

areas that will fulfill part of the General Education requirements at Southern Adventist University. Instructors are academy teachers who are qualified with appropriate credentials and experience.

To enroll in an extension class, students may be members of the junior/senior class with a grade point average of 3.00 or above during the years of their secondary education.

The extension classes must duplicate their university counterparts in content, degree of difficulty, testing and grading. The use of formal Advanced Placement (AP) courses may be used where such are available.

Academies that would like to participate in this program must contact the Vice President of Academic Administration to make application.

## **Application Procedure for Admission**

- Prospective students should request application forms from the Enrollment Services Office or can apply on the Internet at [www.southern.edu/apply](http://www.southern.edu/apply).
- Completed paper applications should be returned to the Enrollment Services Office with an application fee of \$40. Online application fee is \$25.
- It is the student's responsibility to request any former schools (high school and college) to forward transcripts to the Enrollment Services Office in support of the application. These will become the property of the University.
- It is the student's responsibility to forward the ACT or SAT test scores to the Enrollment Services Office.
- Upon receipt and evaluation of the application, transcripts of credits and test scores, the Enrollment Services Office will notify the applicant of the action taken.

Southern Adventist University must have received a final official high school transcript or GED scores from each new student before he or she will be allowed to proceed to registration.

## **Commitment Deposit**

All new and transfer students who receive academic acceptance must pay a \$250 Commitment Deposit in order to reserve their place in the entering class. This deposit is required of all new students, regardless of whether they are commuter students\* or residence hall/university housing students\*\*. Priority deadlines for the Commitment Deposit are May 1 for the fall semester and November 1 for the winter semester. Commitment Deposits are accepted after these dates, but all deposits become non-refundable after May 1 and November 1.

The Commitment Deposit is handled in two ways for new students, based on whether the student is a commuter student or a residence hall/university housing student:

1. **Commuter Students\*:** For commuter students, the Commitment Deposit will be applied toward the student's account. The Commitment Deposit will initially be recorded as a deposit and then transferred onto the student's account after the fall or winter census date. SmartStart commuter students who do not stay for the fall semester forfeit their Commitment Deposit.
2. **Residence Hall/University Housing Students\*\*:** For students who will live in

the residence halls or in university housing, an additional housing deposit is not required. The Commitment Deposit will also reserve a residence hall room or apartment. Residence hall rooms or apartments cannot be reserved until the Commitment Deposit is paid. The Commitment Deposit is held as a deposit on the student's account until the student graduates and/or permanently moves out of university housing. If the residence hall room or apartment is occupied for a minimum of one full fall or winter semester and left in satisfactory condition, the Commitment Deposit will be applied to the student's account. SmartStart residence hall students who do not stay for the fall semester forfeit their Commitment Deposit.

For returning residence hall/university housing students, the Commitment Deposit is held on deposit and allows students to reserve a room or apartment each succeeding year. The residence halls hold a Housing Fair each spring in order to facilitate room reservations for the following academic year. However, if a student changes his/her mind after reserving a room or apartment for the following year, and decides not to return, the Commitment Deposit is no longer refundable if notification occurs after June 1.

*\*Commuter students: Students who do not live in university housing.*

*\*\*Residence hall/university housing students: Students who live in university housing, including Talge Hall, Thatcher Hall, Thatcher South, Southern Village, Virginia Apartments, Stateside Apartments, Spalding Cove Apartments, Winding Creek Apartments, and other apartments and houses owned by the university.*

## **Admission to Graduate Programs**

For information on graduate programs see the Graduate Catalog.

The degrees offered are:

### **School of Business and Management**

Master of Business Administration

- Accounting
- Customized
- Finance
- Healthcare Administration (Southern Campus, online)
- Management (Southern Campus, online)
- Marketing Management
- Nonprofit Leadership

Dual Degree-MSN and MBA (Southern Campus, online)

Master of Financial Management

Master of Science in Administration

- Church Administration
- Customized
- Nonprofit Leadership
- Outdoor Education



**School of Computing**

Master of Science in Computer Science

Computer Science

- Embedded Systems

**School of Education and Psychology**

Master of Science in Counseling

- Clinical Mental Health Counseling
- School Counseling

Master of Science in Education

- Instructional Leadership
- Literacy Education
- Outdoor Education (hybrid)

**School of Nursing**

Doctor of Nursing Practice

Acute Care Adult/Gerontology (online)

- Acute Care Specialization (online)
- Lifestyle Therapeutics (online)
- Master of Science in Nursing
- Acute Care Nurse Practitioner-Adult/Gerontology
- Adult/Gerontology Nurse Practitioner
- Family Nurse Practitioner
- Nurse Educator (available on campus and online)
- Accelerated RN to MSN
- Acute Care Nurse Practitioner-Adult/Gerontology

Adult/Gerontology Nurse Practitioner

- Family Nurse Practitioner
- Nurse Educator (available on campus and online)
- Dual Degree-MSN and MBA (available online)
- Post Master's Certificate

Acute Care Nurse Practitioner-Adult/Gerontology

- Adult/Gerontology Nurse Practitioner
- Family Nurse Practitioner
- Nurse Educator (available on campus and online)

**School of Religion**

Master of Arts

- Biblical and Theological Studies
- Religious Studies

## Master of Ministry

- Church Leadership and Management
- Church Ministry and Homiletics
- Evangelism and World Mission

## **School of Social Work**

### Master of Social Work

#### Child and Family Advocacy and Treatment

- Entrepreneurship in Social Services
- International Social Work
- Marital Therapy and Stability
- Older Adult Enrichment
- Spiritual Care in Nontraditional Settings
- Trauma and Emergency Management

## **Global Community Development**

### Master of Science in Global Community Development

# Academic Policies

## DEGREE REQUIREMENTS

### Planning a Course of Study

When planning their course work, students should acquaint themselves with their chosen program of study and graduation requirements outlined in this Catalog. Students who have not decided their course of study before entering the University may take a general program exploring several fields. This approach need not result in loss of credits if carefully planned.

Freshman students may consult an adviser, faculty member or the First Year Advising office during the summer months before the beginning of the fall semester. All accepted students and their parents are encouraged to register for a regularly scheduled informative webinar hosted by the First Year Advising office. A helpful tool is the Academic Advising Guide which may be viewed at [www.southern.edu/records](http://www.southern.edu/records). Students planning to enter preprofessional programs should consult the adviser, department, or school that will help them prepare for certification or meeting the entry requirements of the respective professional program.

Degree candidates are responsible for satisfying all degree requirements. They may choose to meet the requirements of any one Catalog in effect during the period of residency. If students discontinue their education for a period of twelve months or more, they must qualify according to the Catalog in force at the time of their return.

### General Degree Requirements: Master's Degree

The general and specific degree requirements for a master's degree are described in a separate Graduate Catalog, available online. Master's degrees are available in the fields of Business, Computing, Counseling, Education, Nursing, Religion, and Social Work. A DNP (Doctorate of Nursing Practice) is also available.

**Seniors Enrolling in Graduate Courses.** Seniors within 30 credit hours of completing requirements for the bachelor's degree may apply for admission to graduate courses. The applicant must have an overall cumulative grade point average of 3.00 (B) or higher and be recommended by the department/school chair or dean of his or her respected program.

- Approval must be obtained from the Graduate Studies Office, 2008 Wright Hall; 423-236-2694. Forms are available online at <http://graduatestudies.southern.edu>.
- A maximum of 12 hours of 500 level graduate credits may be taken in this status.
- The student must meet all prerequisites necessary for the admission into the course.
- Courses taken from a school outside the student's active program require permission for the school dean.
- Courses taken for graduate credit may not be used for both the baccalaureate and the graduate degree program.

- The cost of these graduate classes will be charged separately and are not part of the 12-16 hour undergraduate tuition rate.

## General Degree Requirements: Baccalaureate Degree

The general degree requirements for a baccalaureate degree are as follows:

- Satisfactory make-up of admissions deficiencies.
- A minimum of 124 semester hours with both a resident and cumulative grade point average (GPA) of 2.00 (C) or above.\* Students earning the Bachelor of Music degree must take a minimum 138-142 semester hours.
- A minimum of 40 hours of upper division credit, to include at least 14 upper division hours in the major for a B.A. degree and at least 18 upper division hours in the major for all other baccalaureate degrees.
- Completion of a major and minor (or two majors) for a B.A. degree or completion of a major for other degrees with a cumulative GPA of 2.25 in the major,\* completion of the General Education requirements, and electives to satisfy the total credit requirements for graduation. Courses completed with grades lower than a “C-” will not be applied toward a major or minor.
- More than one major may be earned provided all courses required for each major and its cognates are completed. Each major must include a minimum of 20 semester hours that do not overlap with any other major or minor.
- More than one minor may be earned provided all courses required for each minor are completed. Each minor must include a minimum of 12 semester hours that do not overlap with any other major or minor.
- Bachelor of Arts degrees are exempt from completing a minor if the student is a Southern Scholar or working towards teacher certification.
- Completion of an exit examination as required by the department or school.
- Students wishing to obtain a second degree will need to complete, beyond the 124 minimum hours required, a minimum of 30 hours, including 16 hours upper division, and a new major.

*\*Some schools, departments, or majors require a higher standard. The student should consult the respective Catalog section for specific GPA or grade requirements for the desired program.*

## General Degree Requirements: Associate Degree

- A minimum of 64 semester hours with a resident and cumulative GPA of 2.00 (C) or above. Some majors require additional hours or a higher cumulative GPA. Students should consult the respective Catalog section to learn the minimum requirements for their desired major.
- Completion of a major, the General Education requirements, and electives to satisfy the total credit requirements for graduation. Courses completed with grades lower than “C-” will not be applied on a major. Some majors require a higher minimum grade, as specified in the pertinent Catalog section.
- Students who have completed one associate degree and who wish to obtain another associate degree may do so upon completion of the curriculum prescribed for the second degree. The work completed for the second degree must include at least 24 hours in residence over and above the number of hours earned for the first degree. If the second associate degree is earned subsequent to the first associate degree, the requirements for the second degree will be

governed by the provisions of the Catalog in effect at the time the student re-enters the University for work toward the second degree.

- Students who wish to obtain an associate degree at the time they receive a baccalaureate degree may do so if the degrees are in different fields. If requirements for an associate and a baccalaureate degree in the same field are completed at the same time, only the higher degree will be conferred.

### **Certificate Requirements: One-Year Certificate**

- A minimum of 32 semester hours which meet the requirements of a specific one-year program.
- A resident and cumulative grade point average of 2.00 (C) or above. Grades in the technical area below “C-” will not be accepted.

### **General Requirements: Minor**

- A minimum of eighteen semester hours of which six must be upper division credit.

### **Major and Minor Requirements**

Each major consists of 30 hours or more in the chosen field of specialization of which a minimum of 14 for a Bachelor of Arts degree and 18 for all other bachelor’s degrees must be upper division credit. The total semester hours required for each major for the Bachelor of Arts, Bachelor of Science, Bachelor of Business Administration, Bachelor of Music, Bachelor of Social Work, and Bachelor of Fine Arts degrees varies with the field of specialization chosen.

All minors consist of at least eighteen semester hours. Six hours of a minor must be upper division credit.

The specific requirements for majors and minors are given under the respective disciplines section.

### **Registration**

Students are expected to register during the scheduled registration periods designated in the school calendar. New students are encouraged to contact their adviser or the First Year Advising office for assistance with registering for courses. New students are required to participate in the orientation activities.

**Late Registration.** Permission to register late must be obtained from the Director of Records and Advisement. The course load of a late registrant may be reduced according to the amount of class work missed. A student registering after the first week of classes must obtain permission from the instructor and their adviser before enrolling in a class. No student may register after two weeks of the semester have elapsed.

**Changes in Registration.** To avoid changes in registration, students should carefully consider the program of courses necessary to meet their objectives. To avoid subsequent adjustments, a balance should be maintained between the course load, work program, and extracurricular activities.

To make changes in registration, students must obtain the appropriate change of registration voucher at the Records and Advisement Office, obtain the necessary signatures indicating approval of the change, and return the form to the Records and Advisement Office. Course changes and complete withdrawals from the school become effective on the date the voucher is filed at the Records and

Advisement Office. A fee will be assessed for each change in program after the first week of instruction.

A student may not change from one section to another of the same course without the approval of the professor.

When a student drops a class during the first week of the semester, the class is deleted from the student's record. A grade of "W" is issued when a student drops the class on the second week of the semester. A student may withdraw from a class up to the date published in the Student Handbook/Calendar to receive a "W". No withdrawals will be permitted on the tenth week or by the published date.

**Auditing Courses.** With the approval of the department/school, students may register on an audit basis in courses for which they are qualified. Auditors are to be admitted to classes of limited enrollment only if there are places after all students who wish to enroll for credit have been accommodated. Class attendance is expected but examinations and reports may be omitted. With the approval of the professor, a student may change a course registration from audit to credit or from credit to audit only during the first week of instruction. No credit is given for courses audited. Students taking nine or more hours of undergraduate credit may audit any additional class(es) for free-as long as the professor approves the audit, the minimum student enrollment in course has been met, and/or there is sufficient room in the class. Students taking eight or less hours for credit will be **charged one-half of the regular tuition charge.**

**Canceled Classes.** The Vice President for Academic Administration or a department/school may cancel a class for which fewer than six tuition paying students enroll. This policy applies to ordinary classes but not to directed study courses, private lessons, and other special classes such as special methods of secondary teaching. Students enrolled in canceled classes should confer with their advisers to determine alternate means to complete their schedules.

**Withdrawal Procedure for Students Called to Active Military Duty.** Southern Adventist University community recognizes the sacrifices that those in the armed forces make while serving our country. We are proud of these individuals and have, therefore, adopted the following policy to deal with currently enrolled Southern Adventist University students who are called to active military duty.

- Upon presentation of official military orders, the student will be automatically withdrawn from all of his/her courses for the given semester and a grade of "W" with notice of reason for withdrawal will be recorded on his/her academic record.
- In addition, the student is eligible for a full-tuition refund or can choose to have the monies held on account to be used at a later date.
- In the case of a resident student, room and board charges will be prorated based on the period in the semester when the student is required to leave; and the remaining charges will be refunded or held on account based on the student's request.
- If the veteran has left to perform military service, the veteran is to be readmitted with the same academic status he or she had when last in attendance at Southern. In most cases, the length of the absence from Southern cannot exceed five years.

## Credit Hours and Course Load

University courses are expressed in semester hours. A semester hour is consistent with the Carnegie Unit of one hour of faculty directed instruction and a minimum of two hours of academic student work for undergraduate (UG) or three hours of academic work for graduate (G) level courses. A sixteen-semester-hour UG class load will require 16 hours of faculty directed instruction and 32 hours of student academic work each week. A nine-semester-hour graduate load stipulates 9 hours of faculty-directed instruction and 27 hours of student academic work each week. Student academic work contributes to established intended learning outcomes and is verified by evidence of student achievement.

An equivalent amount of work is required for lectures, labs, internships, summer courses, online courses, directed (UG) study, independent study (G), or other course types leading to the award of credit hours. Schools and departments may determine contact time over the minimum requirements as needed. Physical Education activity courses meet two fifty minute periods for one credit hour. A laboratory period of two and one-half to three hours is equal to one class period. Except by permission of the office of the Vice President for Academic Administration, a student may not register for 18 or more semester hours.

To complete a baccalaureate degree in four years, a student must average between fifteen and sixteen hours per semester. The summer term may be used to advantage by students wishing to complete degree requirements in less than four years or by students having to take reduced programs of studies during the regular academic year. The typical class load during the summer is one three-hour class per session.

**Online Courses.** Unless otherwise noted, an online course begins and ends within the same time frame as traditional courses during any semester or summer session in which the online course is scheduled.

**Student Status.** An undergraduate student must be currently enrolled for a minimum of 12 semester hours to be considered full-time. Part-time status is maintained when a student is enrolled in 6-11 semester hours. Non-degree status is given to the student enrolled in 5 or fewer hours.

**Study-Work Program.** It is important that the student adjust the course load to achieve a reasonable balance in study and work. During registration the student should confer with his/her adviser in planning the proper balance of study and work.

In determining an acceptable study-work program, the following will serve as a guide:

Course Load	Maximum Work Load
16 hours	16 hours
14 hours	20 hours
12 hours	26 hours
10 hours	32 hours
8 hours	38 hours

## Class Standing

Standing	Hours
Freshmen	0-23 semester hours

Sophomores	24-54 semester hours
Juniors	55-93 semester hours
Seniors	94 semester hours

Eligibility for class office requires a grade point average of 2.25 and a good citizenship record.

## **Prerequisite for Taking Upper Division Classes**

Students must complete forty semester hours of 100- and 200-level courses (lower division) before enrolling in a 300- or 400-level course (upper division).

**The English Composition and mathematics requirements in area I-1a and I-1b, Communication Skills, and Area I-2a, Computational Skills, of General Education must be met before enrollment in upper division classes.**

## **Southern Scholars Honors Program**

### **The Mission**

Southern Adventist University seeks to provide motivated and capable students with an enhanced interdisciplinary educational experience that emphasizes the integration of spiritual values into our knowledge of nature and society. The Program was created to give intellectually motivated students enriched learning experiences and a community of peers devoted to a vigorous life of the mind that encourages student responsibility for their learning. Southern Scholars welcome intellectual challenge and learning opportunities, both in and out of the classroom.

The honors program is designed for students who bring to their baccalaureate studies a high degree of motivation and intellectual curiosity. Special projects, inter-disciplinary studies, and designated honors courses provide a challenging and intellectually stimulating educational experience. Degrees of depth and breadth are attained in this experience beyond those normally attained in regular baccalaureate studies.

The program is administered by an Honors Committee which admits students to the program and discontinues honors status of those who fail to maintain minimum program standards. Its members also advise individual Southern Scholars and continually monitor their progress.

Admission to the program is competitive and limited to 25 per year. Eligible freshmen must have an ACT of 23 or higher or SAT of 1070 or higher, a high school GPA of 3.70 or higher, and complete an online application by July 30. Students who have completed at least 31 and at most 62 semester hours (exceptions may be granted under special conditions) with a cumulative GPA of 3.50 or higher may also apply. Refer to the Southern Scholars Honors Program Requirements for further clarification of admission and eligibility criteria.

To continue as an active Southern Scholar in good and regular standing, students must complete a minimum of 12 credits each semester and 31 credits each calendar year. They must also enroll in appropriate honors sequence courses, receive a GPA of 3.00 average or higher in the honors sequence courses and maintain a minimum cumulative GPA of 3.50. Southern Scholars on academic warning are welcome to participate in Southern Scholar social events, but are not eligible for financial benefits. For further information regarding the Southern Scholars Honors Program visit the website at <http://southern.edu>.



edu/southern scholars. All honors students are expected to graduate within a four-year period unless involved in study abroad, student mission service, or internship.

Ordinarily, all courses of the honors sequence must be taken in residence. Limited exceptions may be made by the honors committee. Students already enrolled at Southern Adventist University who wish to take honors sequence classes at another institution must secure prior approval from the honors committee.

## Honors Studies Sequence

### 1. General Education

Honors students must meet regular General Education requirements with the following stipulations:

- Area S-1a All incoming freshmen Southern Scholars must take NOND 101-Southern Connections (A-6), Southern Scholars.
- Area I-1b ENGL 103 must be selected in place of ENGL 102.
- Area I-2a MATH 191 or MATH 215 must be selected.
- Area R-3, R-4 One of the following courses must be selected: RELB 268, PHYS 317/RELT 317, BIOL 421/RELT 421, or RELT 467.
- Area I-3c Foreign language competency must be attained at the intermediate level.
- Area S-3a ELIT 445 must be selected.
- Area I-3b HMNT 205 must be selected.
- Area I-4 One of the following science sequences must be selected: BIOL 101 - BIOL 102; BIOL 151 - BIOL 152; CHEM 151 - CHEM 152; PHYS 211 - PHYS 212 or PHYS 221 - PHYS 222 with PHYS 213 - PHYS 214.

### 2. Honors Seminar

HMNT 451, HMNT 452, a sequence of eight seminar sessions, one each month, September through April taken during the junior or senior year.

### 3. Project (2-3 hours, Directed Study)

A significant scholarly project, involving research, writing, or special performance, appropriate to the major in question, is ordinarily completed the senior year. Ideally, this project will demonstrate an understanding of the relationship between the student's major field and some other discipline. The project is expected to be of sufficiently high quality to warrant a grade of A and to justify public presentation. The completed project submitted in duplicate must be submitted electronically and to <http://turnitin.com>. Projects must be approved by the Honors Committee in consultation with the student's supervising professor four weeks prior to graduation. The 2-3 hours of credit for this project is done as a directed study or in a research class.

## Graduation Requirements

### Degree Candidacy

A student becomes a degree candidate when s/he enters the school term during which it will be possible to complete all requirements for graduation. A senior contract for graduation must be given to the Records and Advisement Office by the end of October of the senior year.

## **Dates of Graduation**

The date of graduation will be (a) the date of commencement for those graduating in December or May and (b) for others, the last day of the month in which graduation requirements are met and an official transcript is received at the Records and Advisement Office. Currently, there are two commencement services annually, one at the end of the first semester and another at the end of the second semester.

## **Transcripts**

Before a student will be allowed to graduate, transcripts of all transfer credits and pertinent correspondence must be received at the Records and Advisement Office.

## **Participation in Graduation Exercises**

Students are allowed to participate in commencement exercises only if they have completed all the courses required for graduation.

## **Deferred Graduation**

Students ordinarily graduate under the requirements of the Catalog of the year in which they enter the University. Students who are studying for a baccalaureate degree and fail to graduate within six calendar years (four years for an associate degree), must plan to conform to the current Catalog.

## **Residence Requirements**

### **Baccalaureate Degree**

Twenty-five percent of the total semester hours required for the baccalaureate degree must be taken in residence, including at least 31 of the last 36 hours completed preceding the conferment of the degree. The total hours taken in residence must include at least 15 in upper division, 9 of which must be in the major (per major) and 3 in the minor (per minor), if one or more minors are taken.

### **Associate Degree**

Twenty-five percent of the total semester hours required for the associate degree must be taken in residency including at least 31 of the last 36 hours completed preceding the conferment of the degree. The total hours taken in residence must include at least 15 in the major (per major) and 3 in the minor (per minor) if one or more minors are taken.

### **Certificate Programs**

Eighteen semester hours of credit must be completed in residence immediately preceding the conferment of a one-year certificate.

### **Transfer Credit**

Prior arrangements must be made with the Records and Advisement Office to take courses for transfer credit at another college or university during any session the student is simultaneously enrolled at Southern Adventist University and during any summer after initial enrollment. See department/school sections of the Catalog for classes which must be taken in residence.

## Graduation with Academic Honors

Students graduating with a cumulative GPA of 3.50 or above will have the degree conferred as follows: 3.50-3.74, cum laude; 3.75-3.89, magna cum laude; 3.90-4.00, summa cum laude. The appropriate designations will appear on the diploma.

## Honor Roll/Dean's List

At the conclusion of each semester of the school year, students who have carried a minimum of 12 semester hours and who have attained the following grade point averages will be included in the honors group indicated:

GPA	Honors
3.50-3.74	Honor Roll
3.75-3.89	Dean's List
3.90-4.00	Distinguished Dean's List

## Advisement

Southern Adventist University is committed to assist every student in the area of academic advisement. Full-time students are assigned an academic adviser from their major field and are recommended to consult with their advisers before registering for classes. New students are encouraged to contact the First Year Advising office before registering for classes.

The responsibility of meeting graduation requirements belongs to the individual student. In planning their schedules all students should carefully follow the instructions in the Catalog, recommendations of their advisers, and print a degree audit from the web. In the event of a discrepancy between an adviser's word and the Catalog, final interpretation of graduation requirements rests with the Records and Advisement Office. An effective tool to use in registering is the Academic Advising Guide which can be found at <http://southern.edu/records>. The Guide provides a sequence of courses to take each semester of the program/major.

Seniors must file a senior contract in the Records and Advisement Office to graduate in October of their senior year. Previous to their senior year students should check periodically with the Records and Advisement office to determine whether they are meeting all curriculum requirements satisfactorily.

In the process of curriculum planning, students who have chosen a career in teaching should consult the Teacher Certification Officer regarding the requirements for teaching credentials. Admission for Teacher Education should be completed during the sophomore year.

## Grading System

Course grades are an expression of the student's mastery of the objectives for a particular course. Course objectives, in turn, focus exclusively on discipline-related and content-based knowledge and competencies which the student is expected to achieve as a result of participating in the particular course. Thus, a grade is a permanent record which informs other institutions of higher education, potential employers, and others, of the student's fluency in the subject matter.

The student's grade may be calculated on a normal curve or as a percentage of mastery of the course objectives, or some combination of the two. In any case, a grade should clearly indicate the level of achievement which the student has reached relative to course objectives. Grades are usually based on both formative (i.e. quizzes, homework, group work) and summative (i.e. exams, major projects) activities, although proportions will vary.

Letter grades are generally defined as follows:

- A Superior;** the student demonstrates exceptional capability in handling course material
- B Above average;** the student's demonstrated capability in handling course material exceeds the expectation of the professor
- C Average;** the student demonstrates a satisfactory grasp of course material which the professor intends students to learn in the class
- D Below average;** the student's demonstrated ability to deal with the course material is less than the professor intends students to learn
- F Failing;** the student does not demonstrate sufficient capability with the course material to merit a passing grade
- W Withdrew from the class;** is not calculated in the GPA
- AU Audit;** no credit
- I Incomplete;** is not calculated in the GPA
- IP In Progress;** a temporary passing grade for interrupted course work still in progress; is not calculated in the GPA
- P Pass;** is not calculated in the GPA
- NR Not Reported;** the professor did not issue a grade; is not calculated in the GPA

The Pass/Fail option is available only in Physical Education activity classes (PEAC). Students enrolling in these classes must make a decision either to receive a grade of Pass/Fail or a conventional grade before the final grades are submitted. The decision will be final. Nursing Practicum, NRS 191, is also a Pass/Fail class.

A student may receive an "I" (Incomplete) because of illness or other unavoidable delay. An incomplete which is not removed by the end of the following term (Fall, Winter) will automatically become an "F". A student may petition for an incomplete grade to extend up to one year. After a year a grade must be issued. A professor may assign a temporary "IP" (in progress) when an unavoidable problem prevents the issuance of a grade. Grade changes for a course are accepted up to one year. After one year, the student should enroll the second time and repeat the course.

A course may be repeated before the student takes a more advanced course in the same field. Only the last grade will be counted on repeated courses.

Mid-semester and semester grade reports are available online for the student to access. Only semester grades are recorded on the student's permanent record. The following system of grading and grade point values is used:

## Grade Points Per Hour

A	4.00 grade points per hour
A-	3.70 grade points per hour
B+	3.30 grade points per hour
B	3.00 grade points per hour
B-	2.70 grade points per hour
C+	2.30 grade points per hour
C	2.00 grade points per hour
C-	1.70 grade points per hour
D+	1.30 grade points per hour
D	1.00 grade points per hour
D-	0.70 grade points per hour
F	0.00 grade points per hour

The grade point average is calculated by dividing the total number of grade points earned by the credit hours attempted.

## Outcomes Assessment

In an ongoing attempt to improve its educational quality, the University administers a comprehensive assessment program. This involves periodic measurement of student academic achievement, student satisfaction, and personal, professional, and career development. Although participation in these assessment activities is expected of all students, not every student will be selected for every assessment; but during the course of enrollment, students are likely to be involved in at least one assessment activity.

## Student Records

A student's record is regarded as confidential, and release of the record or of information contained therein is governed by regulations of the federal law on "Family Educational Rights and Privacy." Only directory information, such as a student's name, photograph, address, e-mail address, telephone listing, birthplace and date, major fields of study, participation in officially recognized activities and sports, dates of attendance, degrees and awards received, and the most recent previous educational agency or institution attended, may be released by the institution without consent of the student unless the student has asked Southern to withhold such information.

With the permission of the student, parents of students termed "dependent" for income tax purposes are entitled to access to the student's educational records. The law also provides for the release of information to university personnel who demonstrate a legitimate educational interest, other institutions engaged in research (provided information is not revealed to any other parties), and certain federal and state government officials.

A student may inspect and review records and is entitled to challenge the content of records. Students may access online a history of their coursework, grades, and degree audit.

A more thorough explanation of records may be obtained from the Records and Advisement Office. A FERPA tutorial and quiz is available at <http://southern.edu/records>. The Director of Records and Advisement will further explain and clarify the Family Educational Rights and Privacy Act to students, parents, or interested parties upon request.

## **Academic Honesty**

Morally and spiritually, Southern Adventist University is dedicated to scholastic integrity. Consequently, both students and faculty are required to maintain high, ethical Christian levels of honesty.

### **Faculty Responsibilities:**

1. Professors must explain clearly the requirements for assignments, examinations, and projects, such as “open book,” “take home,” or “peer collaboration.”
2. Professors may assume “no collaboration” is the rule unless they state otherwise.

### **Student Responsibilities:**

1. Students assume responsibility to avoid plagiarism by learning the proper procedures for acknowledging borrowed wording, information, or ideas. Otherwise students might innocently misrepresent others' material as their own.
2. Students unfamiliar with procedures for citing sources should confer with their professors.
3. Students are to assume that all course work is “no collaboration” unless stated otherwise by the professor.

### **Schools/Departmental Policies:**

Some departments/schools, because of the nature of their programs, have additional honesty policies which have the same force as those published here. Such policies will be presented to students before implementation.

### **Procedures for Handling Academic Dishonesty:**

1. When a professor suspects that academic dishonesty has occurred, the professor should first privately discuss the incident with the student. After the meeting, if the professor is convinced the student was dishonest, he or she will file an incident report with the Associate Vice-President of Academic Administration describing the infraction and the penalty administered. The professor shall also give a copy of the report to the student.
2. In verified instances of academic dishonesty, the commonly applied penalties include, but are not limited to the following:
  - Record a failing grade on the exam, assignment, or project.
  - Assign a failing grade in the class.
  - Allow the student to resubmit the assignment with a reduced value for the assignment.
  - Assign the student a paper, project, or activity that improves the student's understanding of the value and nature of academic integrity.
3. The university keeps a centralized file of dishonesty reports in Academic Administration. After two reported incidents of academic dishonesty, the associate vice president will notify the student's dean or chair. Two incidents also make a student eligible for dismissal from the university.
4. At any point, the student may appeal any of the above actions through the established appeal procedures spelled out in the “Academic Grievance Procedure” section of this Catalog.

## Conditional Standing and Dismissal

Any student whose GPA does not meet the criteria for graduation is on conditional standing. The following are four categories of students who are on conditional standing:

1. Students whose Southern Adventist University or cumulative GPA falls below 2.00. They are not eligible to hold office in any student organization.
2. Entering freshmen whose high school GPA is below 2.25 or if their composite ACT score is less than 18.
3. Transfer students whose GPA is less than 2.00.
4. Students in baccalaureate programs completing their sophomore year with a GPA in their major field less than the level required for graduation. For most degrees the institutional graduation requirement is 2.25, but some programs may designate a higher GPA.
5. Students on conditional standing may enroll in a maximum of 13 hours and are required to enroll in NOND 080 - Academic Power Tools.\*

Candidates for a baccalaureate degree must achieve a minimum GPA of 2.00 after 24 semester hours have been attempted. Candidates for an associate or certificate program must have a GPA of 2.00 before beginning their final semester. Veterans enrolled for baccalaureate degrees, associate degrees, or certificate programs must maintain a cumulative grade point average of 2.00, or they will not be certified for veterans benefits. Veterans may be certified for repeat of "F" grades or for a major that requires a specific minimum grade and the grade received was lower than specified.

Government regulations require all financial aid recipients to maintain satisfactory academic progress towards a degree as measured both qualitatively and quantitatively in order to receive financial aid. This requirement applies to the entire enrollment at Southern Adventist University—even periods during which a student does not receive financial aid. Failure to comply with this requirement may result in a student becoming ineligible for financial aid.

This policy defines the minimum standards for eligibility for state and/or federal financial aid.

Students are subject to academic dismissal for any of the following categories:

1. If they are on conditional standing for two consecutive semesters without demonstrating improvement;
2. If they are on conditional standing for one or more semesters and have not received a grade of "C-" or better in NOND 080 - Academic Power Tools;
3. If their Southern Adventist University or cumulative GPA does not reach the levels indicated in the preceding paragraph or the levels in the following table:

<b>Credit Hours</b>	<b>Attempted Cumulative Grade Point Average</b>
0-23	1.50 or above
23-54	1.75 or above
55 or above	2.00 or above

\*Students enrolled in less than 12 hours are exempt from Academic Power Tools.

At the end of each semester the Academic Review Committee reviews the records of students who are subject to dismissal and the Vice President for Academic Administration will notify students in writing whether or not they may continue. A student academically dismissed may be readmitted only after demonstrating maturity and motivation for a university career. The dismissed student may be required to complete successfully at least one term of college-level courses at another institution prior to readmission at Southern Adventist University.

Students receiving financial aid must also meet an academic progress policy set by the federal government. For further explanation see, “Academic Progress Requirements.”

## **Absences**

### **Class**

Attendance at class and laboratory appointments is expected. Professors prepare an absence policy for each class, which includes an explanation of penalties, if any, for absences, and the procedure for making up work, if such is allowed. It is the responsibility of professors to publish their policies for each class at the beginning of each semester, but it is the students’ responsibility to familiarize themselves with the practices of each professor from whom they are taking classes. Generally speaking, professors will not excuse absences for reasons other than illness, authorized school trips, or emergencies beyond the students’ control.

Students are not penalized if they incur absences while participating in school-authorized activities, but they are held responsible for work they miss. It is their responsibility to initiate arrangements to make up their assignments. One and one-half absences are given for missing a 75-minute class, two for missing a 100-minute class, etc.

Students who are on conditional standing are not eligible to participate in extra-curricular trips if the trip would require them to miss more than one day of classes per semester.

### **Examination**

Because of problems concerning time, expense and fairness, final examinations will be taken as scheduled in the official examinations schedule. In the case of illness verified by University Health Center or a physician, death in the immediate family, three examinations scheduled consecutively in one day, or four or more examinations scheduled in one day, a final exam may be rescheduled upon approval by the professor and the Vice President for Academic Administration. The rescheduled examination will be given at a time convenient to the professor.

When examinations are rescheduled because of three scheduled consecutively in one day or four in one day, the last examination of the day will normally be the one rescheduled. Examinations rescheduled for any reason other than those listed above, may require a fee of \$100 per examination. All rescheduling requests will be made on a form available at the office of the Vice President for Academic Administration.



## Convocation

Convocations are held each Thursday at 11:00 a.m. During weeks of prayer, convocations are held on Monday through Friday as well. Occasionally, convocation will be held in the evening or may begin at 10:30 a.m. on Thursday. All students are required to attend 14 convocations each semester. Failure to meet this convocation requirement may result in suspension of registration. Exceptions to the convocation attendance requirement are made by the Office of Student Services only for legitimate direct work conflicts with scheduled convocations. Any excuses for absences from convocation must be approved by the Vice President for Student Services. A special series of orientation convocations is scheduled during the SmartStart summer session.

## Limitations on Class Attendance

Classes at Southern Adventist University are open to registered students only. The learning experiences, class discussions, and the information disseminated in the classroom, or other places of learning, are services which the University provides to its students. The relationship of trust that is required for honest inquiry and open interaction between students and faculty is protected by asking visitors not to attend or participate in classes unless they are invited by the professor for a specific purpose.

Professors and the institution reserve the right to remove students or visitors from classes if their speech or behavior threatens the purposes of the class by exceeding the bounds of normal academic freedom.

Professors conducting extension classes from other institutions on the Southern Adventist University campus share the rights spelled out by this policy.

## Sequence of Courses

A student may not receive credit for a course which is a prerequisite to a course for which s/he has already received credit.

## Course Numbers

Each course number consists of three figures as follows:

### **HIST 354. Latin America (C-1), (W) 3 hours**

The first numeral indicates class year status as follows:

- 0-Developmental (no credit)
- 1-freshman level (lower division)
- 2-sophomore level (lower division)
- 3-junior level (upper division)
- 4-senior level (upper division)

Within a given 100 sequence there is no significance in one course number being higher than another. For instance, 265 does not necessarily mean that the course is on a higher level than 235.

Course numbers separated by a hyphen are two-semester courses in which credit for the first course is a prerequisite to the second [e.g., ENGL 101-ENGL

102. College Composition]. However, credit is given for the first semester when taken alone.

Course numbers that stand alone represent courses of one semester which are complete units. Course numbers separated by a comma [e.g., HIST 154, HIST 155. American History and Institutions] represent complete units, either one of which is counted for graduation without reference to sequence.

Designation in brackets following course titles, [e.g., MATH 111 - Survey of Mathematics (I-2a)] indicates the General Education area and sub-area that the class fulfills. Classes designated with a "(W)" are writing classes for General Education credit.

Students may earn credit for a cross-listed course from only one department/school [e.g. HIST 356 and SOCI 356].

## **Cognate Courses**

Required courses related to the major which are not a part of the major are called cognate courses [e.g., students majoring in Nursing are required to take Microbiology as a cognate course].

## **Student Rights**

### **Right of Petition**

Students who believe there is a valid reason for requesting variance from or exception to an academic policy stated in the Catalog may make a petition to the Director of Records and Advisement for consideration of their case after obtaining the advice and signature of the department chair or school dean of their major. The petition must contain a statement of the request and supporting reasons. Highly unusual requests will be referred to the Vice President for Academic Administration. Students will be notified in writing by the Director of Records and Advisement of the action on petitions. Petition forms are available from the Records and Advisement Office or online at [www.southern.edu/records](http://www.southern.edu/records).

### **Academic Grievance Procedure**

Students who believe that their academic rights have been infringed upon or that they have been treated unjustly with respect to their academic program are entitled to a fair and impartial consideration of their cases. They should do the following to effect a solution:

1. Present the case to the professor or professors concerned.
2. If necessary, discuss the problem with the department chair or school dean.
3. If agreement is not reached at this level, submit the matter to the Vice President for Academic Administration.
4. Finally, ask for a review of the case by the Academic Grievance Committee, chaired by the Vice President for Academic Administration or his designee and including three other faculty members and two students selected by the Academic Affairs Committee. Both the student and the professor involved in the case are entitled to appear before the committee or to present a written statement of the case. The decision of the committee shall be presented in writing to the individuals involved within three

days of the committee meeting unless a later time is agreed upon by both parties. The decision of the committee is binding and will be implemented by the professor involved or the Vice President for Academic Administration.

## **Nontraditional College Credit**

In addition to credit earned in the traditional classroom setting, Southern Adventist University accepts credit earned by two other means—challenge examinations and correspondence courses.

The goals and objectives of the University emphasize not only facts and concepts but also values and attitudes which are not easily transmitted through correspondence courses or measured by examinations. These values and attitudes can best be developed by the student's interacting over a period of time with peers and professors committed to moral excellence, critical thinking, and the pursuit of truth. For this reason, most university credits should be earned through class participation. However, the University will permit a maximum of one-fourth of the credit required for a given degree to be earned by these nontraditional means.

Southern recognizes the International Baccalaureate as nontraditional credit and will record up to 12 hours of credit of courses taken on the Highest level (HL).

## **University Credit by Examination**

The University recognizes three types of examinations for credit: challenge examinations prepared by a department/school which must be passed at "B" level or above, approved College Level Examination Program (CLEP) subject examinations which must be passed at the score of 50 or higher, and the Advanced Placement Examinations which must be passed with a score of 3 or better except in history, biology, and chemistry. The history AP requirement is 4. Advanced Placement history can not be used for general education I-3a but may be used for I-3b. The biology and chemistry AP requirement is 5. Students may be exempt from taking BIOL 152 if they have an Advanced Placement grade of "5" and a grade of "B" or better in BIOL 151. The student who received a 5 on the chemistry AP examination will be given credit for CHEM 151. Credit for CHEM 152 requires a 5 on the AP exam and 2 years of H.S. Chemistry and laboratory work that is equivalent to our university chemistry lab. A student receiving a score of 4 or higher on the AP Chemistry exam will receive credit for CHEM 111. (A student may not receive credit for both CHEM 111 and CHEM 151.)

Not all classes listed in the Catalog are open to challenge examinations. Students must obtain clearance from the department chair or school dean for the class they propose to challenge before petitioning to earn credit by examination. Students must also furnish evidence of adequate preparation to challenge a class before the department chair or school dean assigns a professor to prepare a challenge examination. A student may challenge a given course by examination only once. No CLEP or challenge exam may be attempted after the student has been enrolled in that course beyond the second week of a semester. To challenge ENGL 101 by examination, a student must have a 25 ACT English or a 570 SAT writing score. CLEP will no longer be offered. CLEP exam credit for history will only be accepted for three of the six hours required for a bachelor's level degree. Students taking the CLEP exam for SOCI 125 must pass with a score of 59 or higher. The following subjects are not acceptable by CLEP exam: BIOL

161, BIOL 162, CHEM 151, and CHEM 152. CLEP credit is not accepted by the Modern Languages Department. No course may be challenged as part of the last thirty hours of any degree. Grades are recorded for departmental challenge examinations and scaled scores are recorded for nationally formed examinations. Permission to take a challenge examination while in residence must be obtained from both the department chair or school dean and the Vice President for Academic Administration. A challenge test may not be taken if the student has audited the class.

Students may earn a maximum of 12 hours of credit by examination in courses that do not appear in the University Catalog if the evaluating tests are approved by Undergraduate Council.

Credit for challenge and/or validation examinations will not be placed on a student's permanent record and is, therefore, not transferable until that student has successfully completed 12 semester hours in residence at Southern Adventist University.

Fees charged for challenge examination and credit are listed under "Special Fees and Charges" in the financial section of this Catalog.

Additional information concerning challenge examinations may be obtained from the Records and Advisement Office or the Counseling and Testing Center.

### **Correspondence**

A maximum of 12 semester hours of correspondence or extension credit may apply toward a baccalaureate degree program and eight hours toward an associate degree.

Griggs University, located at Andrews University, is the officially recognized correspondence school. Southern Adventist University recommends Home Study International for those students needing correspondence credit and accepts all such credits when the study program is approved by the University prior to enrollment. The University accepts credits from correspondence schools which are accredited by NUCEA (National University Continuing Education Association) on the basis that credits are accepted from other regionally accredited colleges or universities.

A student will be permitted to carry correspondence work while in residence only if the required course is unobtainable at the University. Correspondence courses, whether taken while in residence or during the summer, must be approved in advance by the University.

Correspondence work may not apply on the upper division requirements of the major or minor. A minimum grade of "B" must be earned to apply on the lower division requirements for a major. A course in which the student earned a grade of "D" or "F" while in residence may not be repeated by correspondence. No correspondence credit will be entered on the student's record until s/he has earned a minimum of 12 hours in residence with an average of at least "C." Official transcripts must be in the Records and Advisement Office before a diploma will be ordered. The graduation date will be the last day of the month after the official transcript is received.

### **Practicum and Internships**

Suggested departmental/school guidelines for practicum and internships.

**Practicum:**

- A minimum of 50 clock hours per one credit hour.
- The process of learning a job on a part-time basis.
- The work may be done at various job sites.

**Internships:**

- A minimum of 100 clock hours per one credit hour.
- The application of learning the skills of a job on a full-time basis.
- The work must be supervised on one job site.

**Waiver Examinations**

Upon the approval of the department chair or school dean and the Vice President for Academic Administration, students may obtain a waiver of curricular requirements by successfully completing a comprehensive examination—written, oral, manipulative, or otherwise, as determined by the department/school involved. A fee of \$50 per examination is charged.

**Transient Student**

A Southern Adventist University student acquires transient student status when s/he is granted permission through the Southern Adventist University Records and Advisement Office to enroll for automatically transferable credit at another accredited institution. The credit that students may transfer must meet Southern Adventist University criteria for transfer credit and residence requirements.

To receive transient status, a student must:

1. have completed a minimum of 12 hours in residence at Southern Adventist University and
2. be enrolled simultaneously at Southern Adventist University for a minimum of three hours of class credit. (This condition does not apply to summer classes.)

Students may not receive transient status for more than one semester during which the amount of transferable credit exceeds the amount of simultaneous credit earned at Southern Adventist University.

**Extension Classes**

Extension classes are university classes offered on the campuses of Southern Union academies as an opportunity for seniors to earn university credit in skills areas that will fulfill part of the General Education requirements at Southern Adventist University. Instructors are academy teachers who are qualified with appropriate credentials and experience.

To enroll in an extension class students must be members of the junior or senior class. The grade point average criteria to enroll in extension classes is for senior class standing is 3.00 or above and for junior class standing 3.50 or above during the years of their secondary education. Eligibility is determined before the student begins taking the extension class.

The extension classes must duplicate as nearly as possible their university counterparts in content, degree of difficulty, testing and grading.

## **Continuing Education**

Southern Adventist University makes continuing education credit available through the Records and Advisement Office. Sponsors of organizations wishing to offer Southern Adventist University continuing education certificates must complete the following steps:

1. Secure approval of the program by
  - applying at the Records and Advisement Office at least two weeks before conducting the workshop/seminar/conference and
  - submitting with their application the topic of the presentation, an outline of the presentation, and the name of the presenter(s) with evidence credentials.
2. File an evaluation of the workshop/seminar/conference following the presentation. The University will furnish evaluation forms.
3. Participants in continuing education events must pay institutional processing fees to receive their certificates.

## **Student Mission/Task Force Credit**

Students may earn twelve hours of elective credit while participating in the Student Mission/Task Force programs. Details are available in the office of the University Chaplain. Students who wish to serve as student missionaries or task force workers must plan their programs a year in advance to fulfill necessary prerequisites.

## **Transcripts**

Students may obtain official transcripts of their academic record through the National Student Clearinghouse website at [www.studentclearinghouse.org](http://www.studentclearinghouse.org) or by clicking on “My Access” at [www.southern.edu](http://www.southern.edu). Official transcripts sent directly to a student will be enclosed in a sealed envelope with the registrar’s signature across the back. Transcripts are released for those students whose accounts are current or paid in full and who are current in re-payment of student loans.

The National Student Clearinghouse charges the student credit or debit card \$2.25 for each transcript destination. Electronic transcripts are available for an additional charge.

A student may receive an unofficial transcript for evaluative purposes by applying in person or by faxing the form to 423.236.1899. The form is available at [www.southern.edu/records/transcripts](http://www.southern.edu/records/transcripts).

# Financing Your Education

## Enrollment Services Mission Statement

In a spirit of Christlikeness, Enrollment Services makes every effort to contact, recruit, enroll, and financially work with academically qualified students who commit to Southern's learning community.

## Financial Aid Policy

Southern Adventist University provides financial aid for students in the form of grants, scholarships, loans, and employment. The source of these funds is Southern Adventist University, private groups, donors, corporations, the Southern Union Conference of Seventh-day Adventists, the student's state, and Title IV funds from the United States Government. Financial aid applicants will not be denied assistance on the basis of sex, race, color, national origin, religion, or ethnicity. The Enrollment Services Office follows established procedures and practices which will assure equitable and consistent treatment of all applicants.

Students are urged to contact the Enrollment Services office, P.O. Box 370, Collegedale, TN 37315-0370, phone 1.800.SOUTHERN, or go to our website [www.southern.edu](http://www.southern.edu) for information about and applications for financial aid. Applications received by the priority deadline of March 31 will be given preference. To meet this deadline, the FAFSA (Free Application for Federal Student Aid) should be submitted online at [FAFSA.gov](http://FAFSA.gov) no later than March 1. Applications received after March 31 will be processed as long as time and funds permit. Southern Adventist University's Title IV code is 003518.

## Financial Aid Available

### Renewable Scholarships

#### Freshman Scholarships

Southern Adventist University offers five (5) scholarships for incoming freshman that are awarded over four years. These scholarships are available only to future Southern freshmen who have just graduated from high school within the past nine months OR who have taken no more than ten semester hours of college credit. A full-time load (12 or more hours) must be taken to be eligible for the scholarships. Students must maintain a minimum 3.00 cumulative GPA. The renewal GPA for the following academic year is determined after the completion of the student's first semester at Southern and then yearly after the fall semester. All amounts listed are awarded equally over four years.

#### 1. Freshman Academic Scholarship

The Freshman Academic Scholarship is based on a combination of the student's ACT score\* and cumulative high school GPA. This scholarship will automatically be awarded once transcripts and test scores are received.

*\*To convert an SAT score to ACT, call an enrollment counselor at 1.800.SOUTHERN.*

Use this Points Formula to calculate eligibility:

**Step One.** Multiply high school GPA by 1,000 \_\_\_\_\_ Points (4000 pts max)

**Step Two.** Multiply ACT\* test score by 100 \_\_\_\_\_ Points

**Step Three.** Add all points from Steps One and Two = \_\_\_\_\_ Total Points

TOTAL POINTS	SCHOLARSHIP	Yearly Amount	Total Award
4,800-5,700	Honors Scholarship	\$2,000	\$8,000
5,701-6,600	Dean's Scholarship	\$4,000	\$16,000
6,601-7,300	Presidential Scholarship	\$6,000	\$24,000
7,301 & higher	Full Tuition Scholarship	Full Tuition	Full Tuition

## 2. Freshman Leadership Scholarship

Students who have served in the following leadership positions during their senior year may qualify for a \$10,000 freshman leadership scholarship (awarded \$2,500 per year for four years): Student Association President, Student Association Vice President, Student Association Pastor, Senior Class President, Senior Class Vice President, and Senior Class Pastor.

## 3. Freshman State Scholarship Replacement for Alabama/Florida/Georgia/Kentucky/Mississippi/North Carolina/South Carolina

Students from Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, and South Carolina, who typically qualify for state scholarship assistance to enter college, will be awarded \$12,000 as a state scholarship replacement (awarded \$3,000 per year for four years). The home address on the undergraduate application will be used to determine the state of residence. Students that receive employer tuition assistance are not eligible for this scholarship.

## 4. Freshman Lightbearer Scholarship

Students who have attended at least two years and graduated from a public high school, home school, or a private high school not run by an Adventist organization, may qualify for an \$8,000 freshman lightbearer scholarship provided to encourage Adventist education (awarded \$2,000 per year for four years).

## 5. Finalist in National Merit Scholarship Competition.

Finalist in either the National Merit Scholarship Competition, National Achievement Scholarship Program for African Americans, National Hispanic Recognition Program qualify for a full tuition scholarship. Semi-Finalists and Commended placements will receive scholarships based on requirements for the Freshman Academic Scholarship or the Transferring Student Scholarships. Taking the PSAT test in the junior year of high school is the first step for entering the National Merit Program. If the student qualifies as a National Merit Semi-Finalist or a PSAT Commended Scholar, he/she is notified by the National Merit Scholarship Corporation. The list of qualifying students is published and sent to U.S. colleges and universities. The semi-finalist may advance to finalist status by taking the SAT during the senior year and by meeting other requirements outlined by the National Merit Scholarship Corporation.

## Transfer Academic Scholarship

Transfer Academic Scholarships are awarded to those students who have earned more than ten hours of college credit and will be taking a full-time load (12 or more undergraduate hours) through the duration of the scholarship. The scholarship is based on the cumulative GPA of all transcripts when transferring. Returning transfer students can receive this scholarship each year by



maintaining a cumulative GPA as listed below. The cumulative GPA is determined after their first semester at Southern and then yearly after the fall semester. Southern does not round up numbers for this scholarship.

<b>AWARD</b>	<b>SCHOLARSHIP AMOUNT AND QUALIFICATIONS</b>
Bronze Circle	\$1,000 with maintenance of 3.40-3.59 GPA
Silver Circle	\$2,000 with maintenance of 3.60-3.79 GPA
Gold Circle	\$3,000 with maintenance of 3.80 and above GPA

## **Other Institutional Scholarships and Discounts**

### **Summer Ministries Scholarships**

These scholarships are available to any student who works during the summer at a Seventh-day Adventist conference-sponsored summer camp or in literature evangelism and then attends Southern during the next academic year. The Enrollment Services Office will verify with the student's employing organization that contractual obligations have been met over the course of the summer. A student who participates in multiple summer ministry projects is eligible to receive only one of the scholarships below. Southern will choose the larger of the two scholarships.

*The Literature Evangelism Scholarship* - Summer earnings placed on the student's account matched 50%, with a cap of \$2,000.

*Summer Camp Scholarship* - \$160 per full week worked, with a cap of \$1,920. To apply for the camp scholarship, the camp director must submit the number of weeks you will work based on your camp contract to the Enrollment Services Office. This information is needed early for budgeting and awarding.

### **Performance Scholarships**

Each year performance scholarships are awarded by the School of Music (for the Orchestra, Wind Symphony, and choirs), Gym-Masters, and Destiny Drama Company. Some of these performance scholarships are by audition only. The scholarships may be renewable for each year the student is at Southern as long as participation in the performing group continues. For more information, call the School of Music at 423.236.2880, the Gym-Masters director at 423.236.2673, or the Destiny Drama Company coordinator at 423.236.2835.

### **Southern Scholars Honors Program Scholarships**

The Southern Scholars Honors Program is designed to enrich the studies of academically motivated students. After successfully completing one year in Southern Scholars, the following scholarships will be awarded:

- \$1,500 for the 2nd year of Southern Scholars
- \$2,500 for the 3rd year of Southern Scholars
- \$3,500 for the 4th year of Southern Scholars

A maximum of 25 new students will be accepted into the Southern Scholars program each year. For more information, call Dr. Mark Peach at 423.236.2743 or email him at peach@southern.edu.

### **Student Missionary/Task Force Scholarship**

Student Missionary/Task Force Scholarships are available to qualified students who attend Southern the year following their term of service. The scholarship is \$1,500. For more information, call the Chaplain's Office at 423.236.2787. This scholarship is not available to freshmen or those with less than eight months of service.

### **SmartStart Free Tuition Waiver**

Southern Adventist University offers to incoming freshman and first-time transfer students the opportunity to take advantage of FREE tuition for one class (equaling 3 credit hours) during the third summer session. Students accepted for the fall semester are automatically eligible to attend.

### **Cut Your Costs by Working**

Working is another great way to reduce the cost of a college education. On average, students can contribute about \$3,000 toward their yearly costs by working 15 to 20 hours a week.

### **Cut Your Costs by Paying the Year in Advance**

Southern offers a 5% discount if payment for the full year's tuition is made by cash or check and a 3% discount if payment is made by credit card. To find out what that amount would be after financial aid is applied, call 1.800.SOUTHERN.

### **Other Potential Scholarship Sources**

Students may qualify for scholarships from national and community organizations like the YMCA and Rotary Club, or from parents' employers, or even from a local church. Scholarship and financial aid information can be accessed on the Internet at [www.finaid.org](http://www.finaid.org). There are several searchable databases of lots of private scholarships, fellowships, grants, and loans at websites such as [www.fastweb.com](http://www.fastweb.com) or [www.scholarships.com](http://www.scholarships.com) for example.

### **Please Take Note**

- Applicants for admission and financial aid will be awarded scholarships on a first-come, first-served basis until Southern scholarship funds are depleted. Plan ahead and submit the applications as early as possible. Priority deadline is March 31.
- All scholarships are divided and distributed equally over the fall and winter semesters. Scholarships are not applicable for summer sessions.
- For students who apply for and qualify for federal financial aid, determination of the total amount of scholarships given by Southern is guided by federal guidelines. Southern is not allowed to "overaward" a student who has applied for federal aid. In some cases, students who qualify for multiple scholarships may only be eligible to receive a portion of their awards, based on the federal formulas for awarding.
- Scholarships and awards, including employer tuition assistance and National Merit Scholarships, cannot exceed costs for tuition (for 12 to 16 hours), general fees, room rent, and a capped amount for books and food. All outside grants and subsidies will be applied before Southern scholarships and awards.
- The total scholarship/grant cost to Southern shall not exceed the charge for tuition and fees.

- Scholarships listed here are available only for full-time students taking 12 or more undergraduate hours each semester at Southern Adventist University's main campus in Collegedale, TN.
- All scholarship offers are contingent on the student enrolling during the 2014-2015 school year and are not transferable to a future year or semester.
- Southern reserves the right to change or amend any of the scholarship policies at any time.

## Grants

Southern Adventist University need-based institutional grants are awarded from institutional and endowment funds to students who have financial need and are achieving academically. The amount of these awards is variable per year depending upon the student's need and availability of funds.

The amount of a student's need-based institutional grant award, as well as his/her federal grant award, will be determined after all the necessary federal and institutional applications are completed and processed. If the student's academic progress falls below the required level, the institutional grant may be canceled. Any requests for exceptions should be addressed to the Financial Appeals Committee.

**Endowment Grants**-Southern Adventist University is blessed with an endowment fund created by donors interested in helping students achieve their educational goals. Eligibility for these grants are determined by filling out the FAFSA. This application uses a common nationwide formula to determine a family's ability to pay for college. Southern uses this formula as a guideline in disbursing the Southern Endowment Fund. To file for financial aid, go online at [www.fafsa.ed.gov](http://www.fafsa.ed.gov). Awards are made on a funds available basis. Notification to eligible recipients will be listed on the Financial Aid Award Letter.

**Federal Pell Grants**-Federal Pell Grants are awarded through a federal program which provides grant assistance directly to eligible first bachelor's degree seeking undergraduate students. A student's eligibility for a Pell Grant is based on a congressionally approved formula which considers family financial circumstances. Pell Grants are available to full- and part-time students with proven financial needs who are making satisfactory progress towards their first bachelor's degree.

**Federal Supplemental Educational Opportunity Grant**-Awarded to students with exceptional need when funds are available from the federal government.

## Eligibility for Institutional Funds

Eligibility for Southern Adventist University need-based funds is based upon a minimum of six credit hours (except where otherwise noted) being taken on the Southern Adventist University's Collegedale campus. Co-op, transient, directed study, distance learning, Adventist Colleges Abroad, and off-site campus classes are not eligible for Southern funds, and do not count toward the six credit hours. If a student has been awarded funds based on full-time enrollment, but the student then enrolls for less than 12 hours, an adjustment will be made (up to the total loss of the funds awarded). Please consult with your Student Finance Counselor if you plan to enroll in less than 12 hours in any semester.

## Loans

**Federal Nursing Student Loans** are available only to students accepted into the nursing program, with demonstrated financial need. Repayment and five percent interest assessment begin nine months after a student graduates, leaves school, drops below half-time enrollment, or drops from the nursing program.

**Federal Perkins Loan**-If eligible and funds are available, students can borrow up to \$2,000 from the federal government through Southern Adventist University. Repayment and five percent interest begin nine months after a student graduates, leaves school, or drops below half-time enrollment.

**Federal Direct PLUS Loans** are available to **parents** of dependent undergraduate students who have satisfactory credit histories. The student must be enrolled at least half-time. The yearly loan limit is a student's cost of education minus any estimated financial aid that s/he is eligible to receive.

The PLUS loan interest rate is set each year in June by Congress at a fix rate not to exceed 10.5%. In addition, the "origination fee" of up to 4.288% of the loan principal is deducted proportionately from each disbursement made. This fee is subject to change.

Parent must apply for the loan online at [studentloans.gov](http://studentloans.gov). Southern Adventist University can refuse to certify a loan application, or can certify a loan for an amount less than a student's parents would be eligible for. The parents will be notified in writing, with a full explanation if such a circumstance should arise.

Federal law requires the US Department of Education to send the loan proceeds to the school in at least two payments. Payments will be sent either by electronic transfer or by check made co-payable to the school and to the parents.

Monthly principal and interest payments begin 60 days after the final loan disbursement. There is no "grace period" for these loans.

If a deferment, a postponement of repayment, applies (including a deferment for college enrollment), the parents' repayment of the principal amount borrowed will not begin until the deferment ends. The interest on the loan is not deferred during the time of the deferment, although the organization that holds the loan may allow the interest to accumulate until the deferment ends. In such a case, however, the interest will be added to the principal, increasing the amount of principal that will need to be repaid.

**Federal Direct Loans** are low-interest loans made to students attending college at least half-time. These loans are insured by a guarantee agency and reinsured by the federal government. A borrower must repay this loan.

Students enrolled at least half-time may qualify for a "subsidized" Federal Direct Loan, which is based on financial need. Dependent students whose parents were denied a PLUS loan and independent students who enroll at least half-time may also apply for an "unsubsidized" Federal Direct Loan regardless of need; that is, regardless of their or their family's financial status.

Dependent undergraduate students may borrow up to:

- \$5,500 if they are first-year students enrolled in a program of study that is a full academic year.
- \$6,500 if they have completed at least 24 credit hours and the remainder of their program is a full academic year.

- \$7,500 a year if they have completed at least 55 credit hours and the remainder of the program is at least one academic year.

The total Direct Loan debt that a dependent undergraduate student may accumulate is \$31,000.

Independent undergraduate students may borrow up to:

- \$9,500 if they are first-year students enrolled in a program of study that is a full academic year. (At least \$6,000 of this amount must be in unsubsidized Direct Loans.)
- \$10,500 if they have completed at least 24 credit hours and the remainder of the program is a full academic year. (At least \$6,000 of this amount must be in unsubsidized Direct Loans.)
- \$12,500 a year if they have completed at least 55 credit hours and the remainder of their program is at least one academic year. (At least \$7,000 of this amount must be in unsubsidized Stafford Loans.)

The total Direct Loan debt that an independent undergraduate (or a dependent undergraduate student whose parents do not qualify for PLUS loans) may accumulate is \$57,500, with no more than \$23,000 in subsidized loans.

The Direct Loan interest rate is set each year in June by Congress at a fix rate not to exceed 8.25%. In addition, a Federal origination fee of up to 1.072% of the loan principal is deducted proportionately from each disbursement made, the origination fee is subject to change. For additional information on the interest rate visit [studentaid.ed.gov](http://studentaid.ed.gov).

The amounts given are the maximum amounts that can be borrowed; however, students cannot borrow more than the cost of education at Southern Adventist University minus any other financial aid they receive.

After the FAFSA is completed, the student must sign a master promissory note and complete entrance counseling online at [studentloans.gov](http://studentloans.gov) before the loan is released onto their account.

**Associate Degree Students** will be considered as having less than 55 credit hours for loan purposes.

**Undergraduate Students Attending Less than a Full Academic Year** may borrow an amount which may be less than the amounts listed above. Information about how much may be borrowed can be obtained from the Enrollment Services Office.

## Work

**Federal Work-Study Program**-Federal Work-Study funds are available to undergraduate students with demonstrated financial need. Under the Federal Work-Study program, the employer pays a small part of the student's wages, and the government pays the remainder. Most work-study positions are on campus. Students are responsible for acquiring their own jobs. Students can work part-time while they are enrolled. They can work full-time during the summer and other vacation periods. The basic pay rate is no less than the current minimum wage. The rate varies depending on the skill and experience needed for the job.

Students who receive Federal Work-Study earnings will receive 100% of their earnings unless they give written permission for their earnings to be applied to their student account or their account is flagged as past due. The Federal

Work-Study Program is not a grant, but is the method of payment for a student's eligible job. Further information is available from a Student Finance counselor.

## **Veterans' Benefits**

Southern Adventist University is approved for the training of veterans as an accredited training institution. VA benefits may not be available for students enrolled in classes offered off the Collegedale campus. Those who qualify for educational benefits should contact the nearest Department of Veterans' Affairs.

Veterans or other eligible persons are required to attend classes in order to be eligible for educational benefits. Southern Adventist University is required to report promptly to the VA the last day of attendance when an eligible student withdraws or stops attending classes regularly.

A recipient may not receive benefits for any course that does not fulfill requirements for his/her stated degree and major. Audited courses, non-credit courses (except for a required remedial course), and correspondence work cannot be certified.

## **SALT: Soul-Winning and Leadership Training Fees**

Students interested in the SALT program must contact the program coordinator or visit the SALT website at [www.southern.edu/salt](http://www.southern.edu/salt). Program costs vary depending on whether or not a student wants to obtain academic credit for the semester. For credit, regular Southern tuition rates apply and scholarships and financial aid are available. For non-credit participants, program fees will be at an audit rate of \$3,690 per semester.

## **High School Students Tuition Program**

Eligible juniors and seniors may take up to six credit hours of Southern's on-campus classes at one-half the current tuition rate per hour. Students eligible for denominational subsidy will receive subsidy based on the actual tuition charged. Private music lesson fees are at the regular Southern tuition rate. Does not apply to lab fees or other charges that may be in addition to tuition.

## **Student Missionaries & Task Force Workers Waiver Program**

Those students planning to serve as Student Missionaries or Task Force Workers and enrolling in NOND 227 and NOND 228, Christian Service I and II, will receive a rebate to cover 90% of the tuition for these classes.

Students enrolled in COMM 291/COMM 391, Intercultural Communication Practicum, will be given a partial tuition rebate.

Before final authorization may be obtained, all students going as Student Missionaries or Task Force Workers must be cleared by the Enrollment Services Office.

## **Summer Evangelist Waiver Program**

Students serving as Summer Evangelists with the Pierson Institute of Evangelism and World Missions and enroll in NOND 226 will receive a rebate to cover 90% of tuition for this class.

## Senior Citizen and Light Volunteer Tuition Waiver Program

Persons 65 years of age or over or Light Volunteers may audit one undergraduate course free of charge per semester, or take for credit one undergraduate course, at one-half the current tuition rate per hour. The waiver does not apply to lab fees or other charges that may be in addition to tuition.

There must be space available in the class to be eligible for this plan. Individuals must submit a non-degree application to Enrollment Services and then register for the class through Records and Advisement.

## Financial Aid Procedures

### Financial Aid Applications

The Free Application for Federal Student Aid (FAFSA) must be submitted annually to apply for the federal, state, and institutional aid programs. This application should be completed online at [www.fafsa.ed.gov](http://www.fafsa.ed.gov) for fastest processing.

Applications received by the priority deadline of March 31 will be given preference. To meet this deadline the FAFSA should be submitted no later than March 1. Applications received after March 31 will be processed as long as time and funds permit. Southern Adventist University's TITLE IV code is 003518. Southern strongly encourages selecting the automatic IRS Tax Return Data Match when completing the FAFSA to ensure accuracy of financial information and avoid potential verification delays.

### Verification

The following documents must be submitted only if you have been selected by the government for verification. The Enrollment Services Office will notify you if these documents are needed.

1. The Federal Verification Worksheet.
2. Copies of parents' IRS Tax Transcript.
3. Copies of student's IRS Tax Transcript.
4. Supplemental Nutrition Assistance Program (SNAP) documents.
5. Child support documents.
6. Statement of Identity and Educational Purpose.

### Transfer Student Financial Aid Applications

Financial aid for students transferring from other institutions will be determined by their academic standing, which will be calculated on all hours Southern has accepted. Students with a GPA below policy will be on financial aid probation for one semester. If the cumulative GPA or the completion rates are below the required levels at the end of the probationary period, students will be ineligible to receive financial aid. Deletion of transfer hours from Southern Adventist University academic records may affect a student's financial aid eligibility, depending on the number of hours deleted. Any change in academic program, such as changing from a baccalaureate degree program to an associate degree program, or from an associate degree program to a one-year certificate degree program, may affect a student's eligibility for financial aid.

## **Transient Student Financial Aid Applications**

Financial aid for transient students is available when a student receives a transient student permission letter from the Records and Advisement Office.

Eligibility for a Federal Pell Grant, Federal Direct Loans (Subsidized and Unsubsidized), or Federal Direct PLUS Loans will be based on total hours enrolled at both institutions. Costs at both institutions will be a factor in determining eligibility.

## **Financial Aid Award and Disbursement Procedures**

### **Financial Aid Award Procedures**

A Financial Aid Award Letter will be sent to each accepted applicant after the Enrollment Services Office receives the FAFSA results (electronically received from the federal processor). To confirm and reserve the funds offered, students should return the signed acceptance of the offer within ten days of receipt. It will be assumed that students are accepting the full award amounts if the award letter is not signed and returned within the allotted time.

Financial aid awards are made on a rolling basis, as long as funds are available, with the neediest students receiving priority. The financial aid award package may be a combination of: 1) federal state, private, or institutional grants or scholarship 2) Federal Work-Study 3) federal student loans.

### **Disbursement of Financial Aid Funds**

Financial aid awards are disbursed based on enrollment status each semester. The disbursement will show as a credit on a student's account. Loan funds received from the federal loan programs will in most cases be automatically credited to the student's account after the semester's census date and once the master promissory note (MPN) and entrance interview requirements are met. In the cases where the funds are received in the form of a check, the check will be available for signing in the Accounting Office. In addition, an entrance interview is required for first-time borrowers prior to receiving their loan funds. Exit interviews are required for each type of loan when a student graduates or terminates his/her studies at Southern. It is the student's responsibility to notify the Enrollment Services Office if they do not plan to return. A student's diploma and/or academic transcripts will not be released if all loan exit interviews are not completed.

### **Financial Aid Overaward Procedures**

When financial aid recipients receive additional resources not included in the financial aid award letter, it is the student's responsibility to report these funds to the Enrollment Services Office. Federal regulations prohibit "overawards;" therefore, when the total of all resources exceeds the allowable student budget, financial aid awards must be adjusted. When financial aid funds have already been credited to the student's statement, any refunds due or overawards will be charged to the student's account.

## **Financial Aid Eligibility Requirements**

### **General Requirements**

Financial aid awards are made for one academic year to students who are accepted for admission, demonstrate a financial need, and are enrolled for at



least six credit hours on the Collegedale campus. Recipients of government aid must hold U.S. citizenship or a permanent resident visa. Students desiring aid must reapply each year, have a GED or high school diploma on file in the Records and Advisement Office, and continue to make satisfactory academic progress toward a degree to receive financial aid.

**WARNING:** If a student purposely gives false or misleading information on the federal aid application, s/he may be fined \$20,000 by the US Department of Education, sent to prison, or both.

## Academic Progress Requirements

### *Academic Progress Policy*

Government regulations require all financial aid recipients to maintain satisfactory academic progress (SAP) toward a degree as measured both qualitatively and quantitatively in order to receive financial aid. This requirement applies to the entire enrollment at Southern Adventist University—even periods during which a student does not receive financial aid. Failure to comply with this requirement may result in a student becoming ineligible for financial aid.

This policy defines the minimum standards for eligibility for state and/or federal financial aid.

## Academic Progress Standards

### *Qualitative Standards*

CUMULATIVE CREDIT HOURS ATTEMPTED	CUMULATIVE GPA
0 - 23	1.50 or above
24-54	1.75 or above
55 or above	2.00 or above

### *Quantitative Standards:*

Students must complete and pass a minimum of 67 percent of attempted credit hours toward a degree to be making satisfactory progress. Incompletes, withdrawals, and failed courses count toward the total attempted credit hours. A repeated course counts as attempted credit hours each time it is taken.

### *Time Frame for Receiving Financial Aid*

DEGREE PROGRAM	DEGREE	MAX. TIME TO RECEIVE FINANCIAL AID
General	Baccalaureate	186 attempted hours
General	Associate	96 attempted hours
Art	Baccalaureate	190 attempted hours
Music	Baccalaureate	198 attempted hours
Nursing	Associate	103 attempted hours
Second	Baccalaureate	231 attempted hours
Second	Associate	132 attempted hours

The above maximum time frame to receive financial aid is based on 1.5 times the number of credit hours to attain a degree. Hours from the first degree will be counted as attempted hours toward a second degree. Adding a second major does not count as a second degree.

Time frame for transfer students will be evaluated according to the hours accepted from previous institutions and the attempted hours toward Southern's current degree program.

### *Progress Review*

A financial aid recipient's progress at Southern Adventist University will be reviewed at the end of each semester and will be based on the number of attempted hours a student completes during each semester of an academic year and the cumulative grade point average (GPA).

Students who do not meet the above satisfactory GPA or completion requirements will be placed on financial aid warning. If the cumulative GPA or the completion rate is below the required level at the end of the warning period, the student will be ineligible to receive financial aid and may file an appeal with the Financial Appeals Committee.

Students may enroll for the summer sessions or subsequent terms at Southern without financial aid assistance or attend another accredited institution to fulfill the progress requirements. Academic progress for these students will be reviewed prior to the release of financial aid for the following term in which the student reaches the necessary academic standard.

Students accepted to Southern Adventist University on conditional standing will be eligible for financial aid for the first semester in attendance. Financial aid thereafter is based on the guidelines set above.

### *Procedure for Appeal and Reinstatement of Financial Aid*

Students who are found to be ineligible for financial aid based on progress will be notified in writing from the Enrollment Services Office. If unusual circumstances occur that include, but are not limited to, personal or family illness, injury, or death in the family, students may appeal in writing to the Financial Appeals Committee for continuation of financial aid. Students will receive a written notification as to the committee's decision. If approved, the student will be placed on financial aid probation and must sign the SAP Appeal Response Certification form before financial aid is reinstated.

## **Financial Aid Refund Policy**

Financial aid is considered to be used first for direct educational costs (tuition, fees, room, board, and books), therefore, when a student withdraws from classes and under the refund policy receives a refund of these charges, any credit will be used to reimburse financial aid programs first, and any remaining credit will be refunded to the student.

According to federal regulations, refunds due to Federal Title IV programs will be allocated according to the following priority:

1. Unsubsidized Federal Direct loans
2. Subsidized Federal Direct loans
3. Federal Perkins loans

4. Federal Direct PLUS loans
5. Federal Pell Grant program
6. Federal Supplemental Educational Opportunity Grant program
7. Other Title IV aid programs

### **Amount of Title IV Aid Earned**

To calculate the amount of Title IV aid earned, the percentage of Title IV aid earned (as figured by the withdrawal date) is multiplied by the aid that has been disbursed as well as the aid that could have been disbursed.

### **Amount of Title IV Aid to Return**

To calculate the amount of Title IV aid to return, the amount of Title IV aid earned (as figured above) is subtracted out of the aid that was disbursed as well as the aid that could have been disbursed.

For further explanation, please contact a Student Finance Counselor.

### **Financial Aid Repayment Policy**

There are specific repayment policies for students who withdraw completely from Southern and have received financial aid in excess of their incurred educational costs. An example would be the student who received a Federal Direct Loan and did not use the full amount for educational costs. An amount owing to any federally funded student aid program will be covered by Southern and then charged to the student's account.

### **Deferment of Financial Aid Repayment for Student Missionaries/Task Force Workers**

Any student desiring to serve as a Student Missionary or in a Task Force position needs to apply through the Chaplain's Office. General Conference policy requires the completion of the course Student Missions Orientation Class, NOND 099, prior to placement in a volunteer position. The orientation class is taught the last nine weeks of the second semester. Students who register for NOND 099 will not receive any academic credit hours. The course NOND 099 is also taught online to facilitate those students going out second semester.

To receive 12 hours of academic credit, the student must complete a full academic year of service. Students enrolled in NOND 227 and NOND 228 must have taken NOND 099 as a prerequisite. A maximum of 12 hours is available during the year of service. Specific details regarding academic assignments may be obtained from the Chaplain's Office.

Before final authorization may be obtained, all students going as Student Missionaries or Task Force Workers must have their student account paid in full and cleared by the Enrollment Services Office.

## **Student Labor**

### **Student Labor Regulations**

Work opportunities are available in departments/schools and industries operated by the University and at local private businesses. Students seeking employment

should contact the Human Resources Office or visit [www.southern.edu/hr](http://www.southern.edu/hr) for a listing of available positions or to complete an employment application.

Although Southern Adventist University cannot guarantee a student employment, the University will endeavor to find a work opportunity either at the University or at a local business. Students are urged to arrange class schedules that allow blocks of time for work.

All hiring formalities are completed in the Human Resources Office. Students must bring their Social Security cards and one identification document, such as a passport, driver's license, or original birth certificate, in order to complete the hiring process legally. Students who are not American citizens must produce an unexpired employment authorization document such as a valid I-20 or other legal document before employment can be arranged.

Students are expected to maintain satisfactory job performance and meet all work appointments, including those during examination week. Work superintendents reserve the right to dismiss students if their service and work records are unsatisfactory. Should a student find it necessary to be absent from work, s/he must make arrangements with the work supervisor and, if ill, with the University Health Center.

A student accepting employment is expected to retain it for the entire semester except in cases where changes are recommended by the University Health Center or the Human Resources Office. Should a student receive opportunities for more favorable employment at another department on campus during the semester, the transfer must be made through the Human Resources Office and the two employing departments. A student must NOT drop his/her work schedule without notifying the Human Resources Office.

Students can work a maximum of 24 hours per week during the fall and winter semesters, including vacation periods. They can work a maximum of 38 hours per week during the summer sessions. The basic pay rate is no less than the current minimum wage. The rate varies depending on the skill and experience needed for the job.

Students who work more than 20 hours per individual week or who are enrolled for less than 12 credit hours may have Social Security taxes (FICA) withheld from their earnings.

### **International Student Labor Regulations**

International students on non-immigrant visas are required by law to secure permission before accepting any off-campus employment. Foreign students with student visas are allowed to work on campus up to 20 hours a week. Spouses may work only if they have student visas of their own or have immigrant visas.

### **Student Payroll Policies and Procedures**

Students will receive 25% of their net earnings for tithe and personal items directly deposited into the bank account of the student's choice.

Students who receive Federal Work-Study earnings will receive 100% of their net earnings unless they give written permission for their earnings to be applied to their student account, they voluntarily return their earnings to be applied to their student account or their account is flagged as past due. The payroll period normally covers a two-week time period and students are paid every other Friday.

It is recommended that on-campus summer earnings remain on the students' accounts to assist with future educational expenses at Southern.

### **Student Workers' Compensation Insurance**

As provided by the laws of the State of Tennessee, the University carries workers' compensation insurance to protect all employees in case of work-related accidents.

## **Student Financial Responsibility**

### **Student Responsibility for University Expenses**

The Enrollment Services Office will assist students in their financial planning. Financial aid is available to qualified recipients in the form of scholarships, grants, loans, and work opportunities. However, responsibility for payment of University expenses rests with the student, regardless of any assistance which may be expected or received from federal financial aid, parents, Southern Adventist University, denominational employers, or any other source.

Before registering, each student must submit a Payment Contract to the Enrollment Services Office signed by the student indicating acknowledgment of this responsibility. A signed payment contract must be on file before registering for the winter semester or any future semester thereafter. If under 18 when the semester begins, the payment contract must also be signed by a parent or legal guardian.

Information on student costs and means of paying those costs is given throughout this "Financial Policies" section of the Catalog to assist students in financial planning. Student financial responsibility includes awareness of this information and the willingness to seek assistance from their Student Finance Counselor when help is needed.

### **Student Check Cashing**

Students are encouraged to use their home banks or a local area bank for their personal financial services. Southern Adventist University does not cash personal checks.

### **Student Banking**

For the convenience of students and/or their financial sponsors, no-fee banking is available at the Collegedale Credit Union located in Fleming Plaza on the University campus. Service is provided six days each week. With a \$50 savings account students can open a no-fee checking account with no minimum balance. Several commercial banks close to the campus community also provide similar opportunities.

### **Student Personal Effects Liability**

When determining what to bring to campus, students should remember that the University is not responsible for the personal effects of any student even though such effects may be required by the University for student use, or required by the University to be stored in a designated location. University-carried insurance does not insure the personal effects of any individual. The University recommends that students consider carrying insurance against possible losses.

## Fees and Charges

The following fees and charges apply only to undergraduate students on the Collegedale campus. Information concerning graduate student charges is available in the *Graduate Catalog*.

### Tuition and General Fee Charges

Tuition per semester hour (1-11 hours)	\$ 820.00
Tuition for 12-16 semester hours (flat fee)	9,720.00
Tuition for each semester hour over 16	630.00
Tuition for each semester hour of summer school	630.00
Tuition for high school students (on-campus)	410.00
General Fee per semester charged to students enrolled for 6 or more hrs*	400.00
Nursing Consortium Tuition per hour	330.00

### Special Fees and Charges

The following special fees and charges are assessed separately inasmuch as they may not apply to all students nor do they occur regularly:

Academic Power Tools	800.00
Add/Drop fee	25.00
Application for admission - online (non-refundable)	25.00
Application for admission - paper (non-refundable)	40.00
Audit tuition per semester hour:	
If taking 9 or more undergraduate hours for credit	Free
If taking 8 or less undergraduate hours for credit	410.00
SALT Certification (non-credit)	410.00
Automobile parking fee (per semester):	
Residence hall, Village, and Motorcycle	45.00
Commitment deposit	250.00
Examinations:	
Challenge or waiver	50.00
CLEP	80.00
Credit by examination recording fee (per hour)	40.00
TOEFL	25.00
Exam rescheduling fee	100.00
Insufficient funds check fee and penalty	25.00
Insurance**	
Student	960.00
Spouse	2,300.00
Child	1,050.00
All Children (2 or more)	1,900.00
International student deposit	3,000.00
Lab Fees:	
Lab Fee 1	10.00
Lab Fee 2	15.00
Lab Fee 3	20.00
Lab Fee 4	30.00
Lab Fee 5	60.00
Lab Fee 6	90.00

Lab Fee 7	120.00
Lab Fee 8	150.00
Lab Fee 9	180.00
Lab Fee 10	210.00
Lab Fee 11	240.00
Lab Fee 12	300.00
Lab Fee 13	325.00
Lab Fee 14	350.00
Lab Fee 15	400.00
Lab Fee 16	500.00
Lab Fee 17	600.00
Lab Fee 18	700.00
Lab Fee 19	800.00
Lab Fee 20	900.00
Lab Fee 21	1,000.00
Lab Fee 22	1,100.00
Lab Fee 23	1,200.00
Lab Fee 24	1,300.00
Lab Fee 25	1,400.00
Lab Fee 26	1,500.00
Lab Fee 27	1,600.00
Lab Fee 28	1,700.00
Lab Fee 29	1,800.00
Lab Fee 30	1,900.00
Lab Fee 31	2,000.00
Lab Fee 32	2,500.00
Lab Fee 33	3,000.00
Late return of organizational uniform	40.00
(The full cost will be charged if irreparably damaged or not returned.)	
ID Card Replacement fee	20.00
Medical Laboratory Science recording fee (senior year)	55.00
Music Lesson fee (per semester hour)	175.00
Nursing Deposit	400.00
Online Learning fee (per semester hour)	150.00
RN Update Fee	440.00
Packing and moving fee	Actual Cost
Rent per semester:	
Residence Hall***	1,850.00
Southern Village	2,000.00
Spalding Cove	2,000.00
Upper Stateside and Virginia	2,000.00
Transcript fees:	
Processing Fee	2.25
Electronic Option Fee	1.75
FedEx Service (U.S. and Canada destinations only)	25.00

\*Fee is used for computer technology, registration, and access to Wellness Center

\*\*Estimated annual fee, subject to change by insurance company

\*\*\*See Residence Hall/Campus Housing Charges for further explanation of rent charges

## Estimated Student Budget (Southern Campus)

	Residence Hall		Non-Residence Hall	
	Semester	Year	Semester	Year
Tuition (12-16 hrs/semester)	9,720	19,440	9,720	19,440
General Fee	400	800	400	800
Residence Hall Rent**	1,850	3,700		
Food	1,075	2,150		
Books and Misc. Supplies	550	1,100	550	1,100
<b>Total Estimated Costs*</b>	<b>13,595</b>	<b>27,190</b>	<b>10,670</b>	<b>21,340</b>

*(Health insurance, automobile parking, Campus Shop, and Village Market personal purchases are in addition, if applicable.)*

*\*With financial aid and/or labor, this total figure can be substantially reduced.*

*\*\*See Residence Hall/Campus Housing Charges for further explanation of rent charges.*

### Student Account Approved Charges

Any charges to a student's account, outside of the normal educational expenses, must be approved by the Enrollment Services Office. Examples of charges which will not be approved are student club dues.

### Meal Plans and Miscellaneous Charges

The Resident hall meal plan allows residence hall students the privilege of choosing from a large variety of dining options. Students may eat at the Campus Kitchen, Dining Hall, KR's Place, Kayak and Village Market deli. Residence hall students will be billed \$1,075 at the beginning of each semester.

The meal plan for the fall semester begins August 20, 2014, and ends on December 31, 2014. The meal plan for the winter semester begins January 1, 2015, and ends on May 10, 2015. There is no meal plan for the summer months (students taking classes during the summer can use their Campus Card and will be billed monthly for their charges).

Once a student has used their meal plan allowance each semester, food charges will be billed directly to the student account on a monthly basis (up to a maximum of \$500 additional dollars per month.)

Refunds will only be issued if the student discontinues their enrollment at Southern. The refund will be based on their room assignment end date as determined by the Housing Office. A student will not be refunded more than the \$1,075 minus what they have already used.

Southern also offers a semester meal plan for student's residing in campus housing. Meal plans start at \$150 and can be increased by \$50 as requested. No refunds will be given on unused portions. Students should talk with their Student Finance Counselor for additional information.

Community students may charge food at the Campus Kitchen, Dining Hall, KR's Place, Kayak, and Village Market deli as long as their student account is not flagged as past due.

Both residence hall students and community students may charge up to \$150/month in miscellaneous purchases at the Village Market and/or Campus Shop (does not include books) as well as making photocopies and/or paying computer lab printing expenses.



Once a student has charged \$150 for miscellaneous purchases during a month, the student may use cash or credit card to place additional funds onto their Campus Card to be able to make additional purchases.

### **Books**

Books may be charged to the student's account at the Campus Shop. Students may not charge items from the Adventist Book Center or other book stores to their student accounts.

### **International Student Deposit**

In addition to the regular University costs, international students must provide an International Student Deposit of \$3,000USD. This applies to all international students except documented permanent residents of the U.S. or residents of Canada, the Bahamas, and Bermuda. The deposit must be received by the Enrollment Services Office before a U.S. Immigration Form I-20 is sent to the prospective student for entry to the U.S. Because mail service from many foreign countries takes time, this deposit should be sent at least six weeks prior to enrollment. This deposit, once paid, remains untouched until the student graduates, withdraws from Southern, or finishes his or her Optional Practical Training, at which time the international deposit will be applied to the student's account. If the student's account has been paid in full, the deposit will be refunded after the final statement is issued.

### **Health and Accident Insurance**

University policy requires all students to have adequate accident and health insurance covering both inpatient and outpatient services. The same coverage is encouraged for all spouses and dependents. All students who are taking six or more hours (three or more hours during any summer session) or who are living in University housing will automatically be enrolled in the University health and accident plan at the time of registration, and will continue to be enrolled each successive semester until a waiver form is signed and proof of insurance is received. The waiver form must be filled out and turned in for every academic year that a student does not want to be enrolled and charged for the University health and accident plan. Students who have signed a waiver form may later request enrollment at any time. The student may sign a waiver form indicating s/he does not want the University insurance because:

1. The student has adequate US insurance coverage equal to or better than the University insurance plan.
2. The student is covered under the SDA denominational health care plan.
3. The student does not live in University-owned housing and is enrolled in less than six semester hours during the fall and/or winter semester or less than three hours during the summer.

A refund of the premium is allowed only upon entry into the military services or by providing evidence of other insurance prior to the midterm of that particular semester.

## Residence Hall/Campus Housing Charges

### Resident Hall Charges

Room charges are based on two students occupying one room. Residence hall accommodations costs for each individual are \$1,800 (no private bathroom) or \$1,850 (with private bathroom) per semester. Charges are made on a semester basis. A student may, upon application to the residence hall dean, be allowed to room alone at a cost of \$2,750 per semester. Residence hall students living in the Southern Village apartments are charged \$2,000 per semester.

No refunds are made for vacation periods or absences from the campus. When a student withdraws, a prorated portion of the semester charge, beginning with the date of non occupancy of the room, will be refunded.

### University Apartment Costs

University-owned apartments may be rented by students taking a minimum of six hours each semester (preference is given to married students). The apartments range in size from one to three bedrooms and are rented unfurnished (furniture rental available). Rents range from \$350 to \$900 and will be charged by semester. Charges are based on the date of issue and return of keys and proper clearance with the office of the Vice President for Financial Administration.

No refunds are made for vacation periods or absences from the campus. When a student withdraws, a prorated portion of the semester charge, beginning with the date of non occupancy of the room, will be refunded.

### Commitment Deposit and Deposit Refund

All new and transfer students who receive academic acceptance must pay a \$250 Commitment Deposit in order to reserve their place in the entering class. This deposit is required of all new students, regardless of whether they are commuter students\* or residence hall/university housing students\*\*. Priority deadlines for the Commitment Deposit are May 1 for the fall semester and November 1 for the winter semester. Commitment Deposits are accepted after these dates, but all deposits become non-refundable after May 1 and November 1.

The Commitment Deposit is handled in two ways for new students, based on whether the student is a commuter student or a residence hall/university housing student.

**Commuter Students:** For commuter students, the Commitment Deposit will be applied toward the student's account. The Commitment Deposit will initially be recorded as a deposit and then transferred onto the student's account after the fall or winter census date. SmartStart commuter students who do not stay for the fall semester forfeit their Commitment Deposit.

**Residence Hall/University Housing Students:** For students in the residence halls or in university housing, an additional housing deposit is not required. The Commitment Deposit will also reserve a residence hall room or apartment. Residence hall rooms or apartments cannot be reserved until the Commitment Deposit is paid. The Commitment Deposit is held as a deposit on the student's account until the student graduates and/or permanently moves out of university housing. If the residence hall room or apartment is occupied for a minimum of one full fall or winter semester and left in satisfactory condition, the Commitment

Deposit will be applied to the student's account. SmartStart residence hall students who do not stay for the fall semester forfeit their Commitment Deposit.

For returning residence hall/university housing students, the Commitment Deposit is held and allows students to reserve a room or apartment each succeeding year. Residence halls hold a Housing Fair each spring in order to facilitate room reservations for the following academic year. However, if a student changes his/her mind after reserving a room or apartment for the following year, and decides not to return, the Commitment Deposit is no longer refundable if notification occurs after June 1.

*\*Commuter students: Students who do not live in university housing.*

*\*\*Residence hall/university housing students: Students who live in university housing, including Talge Hall, Thatcher Hall, Thatcher South, Southern Village, Virginia Apartments, Stateside Apartments, Spalding Cove Apartments, Winding Creek Apartments, and other apartments and houses owned by the university.*

### **Adventist Colleges Abroad Fees**

Students wishing to apply for study abroad under the Adventist Colleges Abroad (ACA) program must follow the procedures listed below:

1. Obtain an ACA application from Southern Adventist University's Enrollment Services Office, Modern Languages Department or from <http://aca-noborders.org>.
2. Complete and return the ACA application to the Modern Languages Department.
3. Make all payments by cash, check, money order, or credit card. University funded scholarships are not available for ACA students. When planning their finances for the ACA program students must:
  - Have their Southern Adventist University account paid in full.
  - Have completed all necessary paperwork for federal financial assistance and received a financial aid award letter before August 1 if relying on financial aid.
  - Subtract tuition assistance and/or federal financial aid from the total ACA charges due.
  - Pay Southern for charges before the University makes payment to ACA. If payment is not received, students may be sent back from ACA.

## **Southern Adventist University Refund Policies**

### **Refund for Complete or Partial Withdrawal**

Residence hall and University apartment refunds are prorated according to the number of days the student occupies the room subtracted from the number of days charged.

A student who withdraws completely or partially during the semester will receive a tuition/fees refund based on the date the completed withdrawal form with all required signatures is filed with the Records and Advisement Office. Financial aid received is adjusted based on the refund amount that a student receives. Refunds are calculated as follows:

<b>WEEK</b>	<b>REFUND PERCENTAGE</b>
1st week	100%
2nd and 3rd weeks	80%
4th and 5th weeks	60%
6th, 7th, and 8th weeks	40%
9th week through end of term	0%

### **Refund for Shortened School Term Withdrawal (including Summer Sessions)**

<b>DAY</b>	<b>REFUND PERCENTAGE</b>
1st and 2nd days	100%
3rd and 4th days	60%
5th day through end of term	0%

### **Refund of Credit Balances**

Credit balances are refundable, upon request, 30 days after the monthly statement is received for the last month the student was enrolled in order to be certain that all charges have been processed. For example, if a student drops out of college in December, a full credit refund would not be made until after the January statement is prepared during the first week of February. When the credit balance is large, a portion may be refunded earlier upon request to the Enrollment Services Office. Two hundred dollars per month remaining in the semester will be kept on-account for any additional charges that may occur.

If the student has a credit balance caused by a financial aid over-award, the necessary credit will be applied to the financial aid funds, according to the Financial Aid Refund Policy. If any credit remains, it will be refunded as described above.

Any refund will be credited back first to any credit card that was used to make payment within 90 days of the refund. If the refund involves a credit card payment exceeding \$2,000, the refund will be credited back first to the credit card regardless of the date of payment.

### **Returned Check Policy**

If a check is returned by a bank for insufficient funds, account closed, or any reason, a \$25 returned check fee will be assessed to the student's account. This also forfeits the privilege of paying by check for any future payments.

## **Payment Plans**

### **Default Plan: Semester Balance**

The balance for the semester less any financial aid is due before the beginning of fall classes.

### **Plan Option 2: Year in Advance Discount**

Southern Adventist University offers up to a 5% discount by paying their yearly expense less any financial aid the student is receiving before the fall semester begins. The 5% discount is available if paying by cash or check and a 3% discount is offered if paying by credit or debit card. The discount is only available to students taking six or more hours per semester. For additional details and to determine the payment and discount amount contact a Student Finance Counselor.

### **Plan Option 3: Monthly Payment Plan**

When a student is unable to pay the semester expenses upfront, Southern Adventist University offers two payment plans through the TouchNet Student Account portal at [southern.edu/payment](http://southern.edu/payment) for a \$50 setup fee. This fee will be waived if automatic payments are scheduled upon sign-up.

Once a student registers, their account will be charged for tuition, general fee, lab fees, housing, and meal plan as applicable. Once charges have been posted, students and authorized users can sign-up for a plan at [southern.edu/payment](http://southern.edu/payment). The first payment is due August 24. In order to help lower the average monthly cost and spread the fall semester payments over additional months, students can sign up early for a payment plan in June and July.

### **Methods of Payment**

Students, parents, and other authorized users can make payments in person, via mail, or online through the TouchNet Student Account portal at [southern.edu/payment](http://southern.edu/payment). Students must grant access to authorized users (including parents) within the system before authorized users can view or make payments to the student's account. Students use their Southern's username and password to access the system.

### **Credit Card Payments**

Southern Adventist University honors VISA, MasterCard, Discover, American Express and debit cards for making payments on a student's account. No cash withdrawal service is available from these cards-this service may be obtained from a local bank.

When using a credit card to pay on an account, the following information must be supplied: 1) name of credit card being used; 2) cardholder's name; 3) credit card number; 4) expiration date; 5) three digit code on the back of the card; 6) student's name and ID number; and 7) amount to be charged on card.

Any refund will be credited back first to any credit card payments that were made within 90 days of the refund. The 90 day limitation does not apply when payments made by credit card exceed \$2,000. In these cases the limitation will be the entire school year.

Automatic credit card payments can be setup when the student or authorized user sets up a payment plan through the TouchNet Student Account portal at [southern.edu/payment](http://southern.edu/payment).

### **Personal Check Payments**

Payments made to a student's account through mail or in person by personal check should have the student's University personal identification number (ID number) written on the check. If the ID number is not written on the check when it is received by Southern, it will be written on the check by a Southern Adventist University employee for posting purposes.

Payment via electronic check can be made online at [southern.edu/payment](http://southern.edu/payment).

### **Tuition Assistance**

Please notify Enrollment Services if either parent is eligible for tuition assistance from an employer and complete the Tuition Assistant form. Indicate whether the

employer is an educational institution or some other organization and if the assistance will be taxable or non-taxable. Upon receiving this information, Southern will bill the parent's employer for the appropriate amount. It is still the responsibility of the parents to ensure that the tuition assistance is paid by their employer. If a student receives an award letter that does not include tuition assistance, but the student's parent is eligible for tuition assistance, the award letter must be adjusted. Please notify the Enrollment Services Office if this is the case.

## Collection Policies and Procedures

### Current Account Collections Policies

#### Commitment Deposit

All new and transfer students who receive academic acceptance must pay a \$250 Commitment Deposit in order to reserve their place in the entering class. This deposit is required of all new students, regardless of whether they are commuter students\* or residence hall/university housing students\*\*. Priority deadlines for the Commitment Deposit are May 1 for the fall semester and November 1 for the winter semester. Commitment Deposits are accepted after these dates, but all deposits become non-refundable after May 1 and November 1.

The Commitment Deposit is handled based on whether the student is a commuter student or a residence hall/university housing student:

1. **Commuter Students\*:** For commuter students, the Commitment Deposit is applied toward the student's account. The Commitment Deposit will initially be recorded as a deposit and then transferred onto the student's account after the fall or winter census date. SmartStart commuter students who do not stay for the fall semester forfeit their Commitment Deposit.
2. **Residence Hall/University Housing Students\*\*:** For students in the residence halls or in university housing, an additional housing deposit is not required. The Commitment Deposit will also reserve a residence hall room or apartment. Residence hall rooms or apartments cannot be reserved until the Commitment Deposit is paid. The Commitment Deposit is held as a deposit on the student's account until the student graduates and/or permanently moves out of university housing. If the residence hall room or apartment is occupied for a minimum of one full fall or winter semester and left in satisfactory condition, the Commitment Deposit will be applied to the student's account. SmartStart residence hall students who do not stay for the fall semester forfeit their Commitment Deposit.

For returning residence hall/university housing students, the Commitment Deposit is held on deposit and allows students to reserve a room or apartment each succeeding year. The residence halls hold a Housing Fair each spring in order to facilitate room reservations for the following academic year. However, if a student changes his/her mind after reserving a room or apartment for the following year, and decides not to return, the Commitment Deposit is no longer refundable if notification occurs after June 1.

*\*Commuter students: Students who do not live in university housing.*

*\*\*Residence hall/university housing students: Students who live in university housing, including Talge Hall, Thatcher Hall, Thatcher South, Southern Village, Virginia Apartments, Stateside Apartments, Spalding Cove Apartments, Winding Creek Apartments, and other apartments and houses owned by the university.*

## **First Fall 2014 Semester Payment: Must be Paid or Classes Dropped on September 1**

Starting in June, all registered students will be billed (as applicable) for tuition, general fee, lab fees, housing, and the semester meal plan.

A student's account semester balance less any eligible financial aid must be paid by August 24, 2014 or current on a fall monthly payment plan within the Touch-Net Student Account portal ([southern.edu/payment](http://southern.edu/payment)), otherwise classes will be dropped by September 1, 2014 (the last day for a 100% refund). This information will be communicated both on the printed July statement to all students that have registered for classes by July 31, 2014 and in a separate letter mailed with the statement.

Students, and their parents, who have not paid by the 24th of August will have an email sent, and a phone call made to the student and parent, letting them know their classes will be dropped by September 1, 2014 (the last day of the 100% refund period) if the payment is not made. If the payment is not made by Monday, September 1, 2014 by 4pm, the classes are dropped and a financial hold is placed on the student's account.

Once the student's classes are dropped, he/she can only have them reinstated with the required minimum payment, approved financing, or a payment plan approved by the Financial Appeals Committee before Monday, September 8, 2014 (the census date). If a student cannot reconcile their account by September 8, he/she will be asked to move out of the residence hall or university student housing by the following Monday.

Students who register for their classes after August 1, 2014, will be e-mailed a letter stating the need to pay their semester balance less any eligible financial aid or sign-up for an eligible payment plan which includes making the first payment amount, otherwise classes will be dropped as with the policy listed above.

### **Statements and Vendor Charges**

Statements will be sent out no later than the 5th business day of each month. Miscellaneous department charges not on the vendor system should be submitted by the 25th of the month to be charged on that month's statement in order to accomplish getting statements out in a timely fashion.

### **Late Payments and Consequences: Late Fees, Collection Letters, Work Earnings Reset, and Charging Privileges**

For an individual not on a monthly payment plan, each statement has a consistent due date, which is the 24th of the following month. If payment is not made by the end of that particular month, a \$25 late fee is charged and a reminder collection letter and email are sent to the student and parent(s), if applicable. The letter asks for immediate payment or that a loan be acquired to clear the full semester's fees. The letter also specifies that any prior arrangement for a larger percentage of the student's work earnings to be sent to the personal bank account will be reset to the standard 25% to the bank account and 75% to the student's bill.

Students on a monthly payment plan will be sent a printed monthly statement detailing any new charges, however the payment amount and payment due date will only be listed on the online payment plan. An automated reminder email will

be sent two days before the payment due date and when the payment is late. A \$25 late fee will be charged three days after the payment plan due date.

### **First Winter 2015 Statement: Must be Paid or Classes Dropped on January 19**

Eligibility for returning students to register for the Winter 2015 semester will be based on the student having paid their account balance in full or be current on their monthly payment plan.

Students that have registered for the Winter 2015 semester must have paid their account balance less any financial aid or be current on a winter semester monthly payment plan with the TouchNet Student Account Portal by January 19, 2015, otherwise their classes will be dropped on January 19, 2015 (the last day to receive a 100% refund for the Winter 2015 semester).

### **Eligibility to Register for Summer or Fall 2015**

Eligibility for returning students to register for any Summer or Fall 2015 classes will be based on them having their account balance paid in full or be current on a monthly payment plan within the TouchNet Student Account portal.

If a student has already registered for classes for a particular semester, but the semester has not yet begun, and the student has become delinquent after they have registered for classes, the student will be sent notification that if their account is not brought current by the last day of the 100% refund period, their classes will be dropped (and they will only be allowed to have their classes reinstated if they pay the full estimated expenses for the semester by the add/drop date or have an alternate arrangement approved by their Student Finance Counselor or by the Financial Appeals Committee).

### **Transcript Requests for Currently Enrolled Students**

Under provisions of the federal loan programs, Southern Adventist University is to withhold transcripts if a student has an unpaid or past due account or any federal loans that are past due or in default.

An official academic transcript will be issued for a currently enrolled student when the student's account is paid or current on a monthly payment plan. Exceptions may be considered when the account is current except for the pending disbursement of a Federal student loan.

When payment is made by personal check, the transcript will be held for ten working days to allow the check to clear. TO EXPEDITE THE RELEASE OF THESE DOCUMENTS, THE STUDENT SHOULD SEND A MONEY ORDER, CASHIER'S CHECK OR PAY BY CREDIT OR DEBIT CARD TO COVER THE BALANCE OF THE ACCOUNT.

### **Non-Current Account Collections Policies**

Students completing or terminating their studies with the university are required to pay their balance in full prior to leaving. Once a student is no longer actively enrolled in current or future classes and has not paid off all of their expenses, the account will be designated as non-current. At the time any account is designated non-current, a carrying charge of one percent per month will apply. If a non-current account holder is owed any money for any reason from Southern Adventist University (work earnings or otherwise), up to 90% of the money owed



will be applied to their non-current account with the remaining funds given to the non-current account holder.

### **Credit Bureau Reporting**

When a student account designation has been changed from current to non-current, a collection letter will immediately be sent to notify the student that adverse information will be reported to the credit bureau if satisfactory payment arrangements are not made. Once an account is reported to the credit bureau it will continue to be reported until their account is paid in full and has no activity for six months or is transferred to a collection agency.

### **Collection Agency Collection Policies**

At day 120 after the conversion to a non-current account, if payment in full or satisfactory arrangements have not been made, the account will be transferred to a collection agency and/or attorney.

If the university deems it necessary to employ a collection agency and/or an attorney to collect defaulted accounts, all charges for these services, including collection and/or court, will be added to the unpaid account.

### **Transcript and Diploma Requests**

Under U.S. Department of Education regulations, Southern Adventist University will withhold transcripts if a student has an unpaid or past due account or any federal loans that are past due or in default.

It is the policy of the University to withhold transcripts, diplomas, certificates of completion, and other records if a student has an unpaid or past due account at the University or has not completed an Exit Interview.

Academic transcripts for non-enrolled students will be issued only after students' accounts are paid in full and when there are no delinquencies in the payment of student loans. No exceptions will be made.

When payment is made by personal check, the transcript will be held for ten working days to allow the check to clear. To expedite the release of these documents, the student should send a money order, cashier's check or pay by credit or debit card to cover the balance of the account.

### **Bankruptcy Policies**

Recognizing that the discharge of a debt through bankruptcy proceedings prohibits a creditor from subsequently pursuing the collection of the debt, the university, upon notification by the court of such filing, will comply with this legal prohibition. No further services will be extended. The bankruptcy of a financial sponsor in no way changes the underlying financial obligation of the student to pay his or her student account.

# General Education

## The Mission

Southern Adventist University as a learning community nurtures Christ-likeness and encourages the pursuit of truth, wholeness, and a life of service.

## Student Learning Goals

Students of Southern Adventist University will

- **Spiritual Development**  
grow in a vibrant relationship with the Lord Jesus Christ, while integrating into their lives Bible-based beliefs and values as understood by the Seventh-day Adventist church.
- **Intellectual Development**  
develop a commitment to life-long-learning and demonstrate a mastery of the cognitive skills of critical reasoning, independent thinking, reflective judgment, communication, and creativity needed to confront the issues, ideas, and values of historical and contemporary civilization.
- **Individual and Social Development**  
develop socio-emotional maturity that will enable them to be effective leaders and contributing members of their churches, families, groups, and communities in a global society.
- **Physical Development**  
take responsibility for their own well-being through a health-promoting lifestyle.

**General Education** is key to achieving the student learning goals since it is that part of the curriculum which is common to the student body as a whole. Hence, it is designed to help all students develop those values that mark a Southern Adventist University educated person and prepare him or her for leadership in today's complex society. In many ways General Education functions as the student's initial major, one which equips the student with the basic knowledge, skills and values which can reasonably be expected of Christian servant leaders. To that end Southern Adventist University students will demonstrate competency in each of the Student Learning Goals articulated above which are specific dimensions arising from the institution's mission and student learning goals.

BACHELOR'S ASSOCIATE

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## R. Spiritual Development

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A graduate of Southern Adventist University has a knowledge of the Bible and a sense of Christian community based on the teachings, beliefs, and history of the Seventh-day Adventist Church.

A correct understanding of the human condition results from a knowledge of the Bible as God's word, a commitment that springs from that truth, and a system of values derived from such knowledge and insight.

Bachelor's degree students must take a minimum of 12 hours of Religion courses, at least 3 hours of which must be upper division. These hours must be distributed as follows:

<b>1) Spiritual Development</b>	<b>3</b>	<b>3</b>
One of the following classes that focuses on the development of personal spirituality: RELB 125 or RELT 177		
<b>2) Seventh-day Adventist Teachings</b>	<b>3</b>	<b>0-3</b>
One of the following classes that focuses on Seventh-day Adventist identity: RELT 138, RELT 225, or RELT 255		
<b>3) Biblical Studies</b>	<b>3</b>	<b>0-3</b>
One class that focuses on the study of Scripture: Any RELB class except RELB 125 (listed above in section 1), RELB 255, RELB 340, RELB 455, and RELB 497		
<b>4) Religion Elective:</b>	<b>3</b>	<b>0</b>
<ul style="list-style-type: none"> <li>• RELB classes</li> <li>• RELT classes</li> <li>• The following RELP classes: RELP 240/RELP 340, RELP 251, RELP 252, RELP 264, RELP 361, RELP 405, or RELP 468</li> </ul>		

Associate degree students are required to take 6 credits, 3 of which must come from Area R-1 above and the other 3 credits which must come from either Area R-2 or Area R-3 above.

Transfer students must take 3 hours at an accredited Seventh-day Adventist college or university for each year or part thereof in attendance at an SDA college or university, with a minimum of 6 hours. Transfer students who are required to take only 9 credits or fewer in Religion at Southern may take their remaining Religion courses from either Area R-1, R-2, or R-3, but may not take more than one class from any single sub-area.

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**I. Intellectual Development Development** **27 - 30**    **18 - 21**

Southern Adventist University graduates will demonstrate skill in critical reasoning, independent thinking, reflective judgment, communication needed in confronting the issues ideas, and values of historical and contemporary civilization. They will develop critical thinking skills by means of courses in various disciplines such as mathematics, communication, science, history, and economics. The student's competence in critical thinking, communication and computation will be measured by means of the required ETS Proficiency Profile administered during their senior year.

<b>1) Communication Skills</b>	<b>9</b>	<b>9</b>
<ul style="list-style-type: none"> <li>a. ENGL 101</li> <li>b. ENGL 102 or ENGL 103 for Southern Scholars</li> <li>c. COMM 135</li> </ul>		

**2) Computational Skills****3 - 6****3 - 6**

Select 0-3 hours from category a) at least one hours from category b) and 2 hours from category c) below:

- a. Students with a Mathematics ACT score below 22 or SAT score below 520 must take one mathematics course selected from: MATH 111, MATH 116, MATH 120, MATH 121 or MATH 215. MATH 080 is required of all students whose ACT Mathematics score is 15 or below or SAT score is 360 or below. If MATH 080 is required, it must be completed with a grade of C or better before the student registers for any other mathematics course.
- b. Choose one of the following concepts courses: BUAD 217; CPTÉ 100; CPTR 110 EDUC 319
- c. Select 2 hours from the following skills courses: ARTG 115; BUAD 217 CPTÉ 105, CPTÉ 106, CPTÉ 107, CPTÉ 109, CPTÉ 110, CPTR 110; EDUC 319; MUED 250; NRSJ 240; TECH 248 (Note taking BUAD 217, CPTR 110, or EDUC 319 covers both concepts and skills-based computer competencies)

**3) Civilization and Global Perspectives****6****3**

Select 6 hours from below: at least 3 hours must come from area 3-a with the remaining hours coming from either 3-a, 3-b or 3-c. After hours have been taken from 3-a, CLEP and Advanced Placement credits may be used to complete the remaining 3-a, 3-b, or 3-c areas.

- a. History of Civilization: FMST 356; HIST 154, HIST 155, HIST 174, HIST 175, HIST 345, HIST 351, HIST 353, HIST 355, HIST 356, HIST 357, HIST 359, HIST 364, HIST 365, HIST 374, HIST 375, HIST 380, HIST 386, HIST 387, HIST 388, HIST 389, HIST 471, HIST 472; HMNT 210; SOCI 356
- b. Society and Culture: ASL 250; COMM 330; FMST 150, FMST 230; GEOG 204; GPSS 110, GPSS 220; PLSC 254, PSYC 231; SOCI 150, SOCI 230; SOCW 150, SOCW 230
- c. World Languages: ASL 101, ASL 102, ASL 207, ASL 208; ITAL 101, ITAL 102, ITAL 207, ITAL 208; FREN 101, FREN 102, FREN 207, FREN 208; GRMN 101, GRMN 102, GRMN 207, GRMN 208; MDLG 265; RELL 181, RELL 182, RELL 191, RELL 192; RUSS 101, RUSS 102, RUSS 207, RUSS 208; SPAN 101, SPAN 102, SPAN 207, SPAN 208

**Language requirement for the bachelors of art degree**

Students entering Southern Adventist University who have less than two secondary school credits of foreign language and who are pursuing a Bachelor of Arts degree must complete a minimum of six credit hours of a foreign language. Students should consult their school/department for specific requirements.

<b>4) Natural Science</b>	<b>6</b>	<b>3</b>
<p>Bachelor's degree students must take at least 3 hours from each of 2 sub-areas or complete a two semester science sequence course. Only one of the following may apply to general education: BIOL 421, PHYS 317. Southern Scholars must take a sequence of two classes from the same department. See the "Honors Studies Sequence" section of the Catalog for clarification.</p> <p>a. BIOL 101-BIOL 102, BIOL 103, BIOL 151-BIOL 152, BIOL 252, BIOL 314, BIOL 421</p> <p>b. CHEM 107, CHEM 111, CHEM 151-CHEM 152</p> <p>c. ERSC 105</p> <p>d. PHYS 127, PHYS 128, PHYS 155, PHYS 211-PHYS 212, PHYS 221-PHYS 222, PHYS 317</p>		
<b>5) Economics &amp; Business Basics</b>	<b>3</b>	<b>0</b>
<p>Select 3 hours from ACCT 103, ACCT 221; BUAD 126, BUAD 128; ECON 213, ECON 224; NRSRG 485; PLSC 224</p>		

**Candidates for the bachelor's degree must complete three writing-emphasis classes.**

These classes are identified by a "(W)" following the course name, [e.g., History of the South (W)] in the departmental listings. One such class must be in the student's major field and one must be outside the major field. The third may be chosen from any area. The writing done as a part of the program overseas completed by students majoring in International Studies, Spanish or French will be accepted in place of a specially designated "W" course in the major.

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<b>S. Individual and Social Development</b>	<b>10</b>	<b>4</b>
<p>In order to develop the socio-emotional maturity necessary to be effective leaders and achieve the necessary tools to be contributing members in churches, families, and their respective communities, students will gain a measure of personal, social and aesthetic expertise.</p>		
<b>1) College Orientation (Southern Connections)</b>	<b>1</b>	<b>1</b>
<p>All first-time freshmen in the first semester of residence are required to take NOND 101.</p>		
<b>2) Personal and/or Social Adjustment</b>	<b>3</b>	<b>0 - 3</b>
<p>Bachelor's degree students must select 3 hours from courses listed below: EDUC 220, FMST 150, FMST 201, FMST 224, FMST 225, FMST 233, FMST 250, FMST 349, FMST 360, FMST 365, FMST 450; PSYC 101, PSYC 122, PSYC 128,</p>		

PSYC 224, PSYC 233, PSYC 250, PSYC 349; SOCI 125, SOCI 150, SOCI 224, SOCI 233, SOCI 250, SOCI 349 SOCI 360, SOCI 365, SOCI 450; SOCW 150, SOCW 201, SOCW 225, SOCW 233, SOCW 250, SOCW 349, SOCW 360, SOCW 365, SOCW 450.

### 3) Aesthetic and Skills Development

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Bachelor's degree students must include at least 3 hours from two the sub-areas below:

- a. Literature: COMM 326; ELIT 214, ELIT 215, ELIT 216, ELIT 240, ELIT 323, ELIT 332, ELIT 333, ELIT 335, ELIT 337, ELIT 338, ELIT 368, ELIT 417, ELIT 442, ELIT 440, ELIT 444, ELIT 445, ELIT 454; FREN 357, FREN 358, FREN 458, FREN 459; SPAN 355, SPAN 356, SPAN 454
- b. Music and Art Appreciation: ARTH 218/ARTH 318, ARTH 342, ARTH 344, ARTH 345; HMNT 205; MUCH 216; MUHL 115, MUHL 218, MUHL 120.
- c. Creative Skills: ART 101, ART 104, ART 109, ART 235; ENGL 312, ENGL 313, ENGL 314; MUPF 108, MUPF 118, MUPF 119, MUPF 128, MUPF 129, MUPF 138, MUPF 158, MUPF 318, MUPF 319, MUPF 328, MUPF 329, MUPF 338, MUPF 358; PHTO 125; TECH 151, TECH 154
- d. Practical Skills: CPTR 124, ENGR 149, TECH 104 , TECH 114, TECH 115, TECH 149, TECH 164, TECH 166, TECH 169, TECH 175, TECH 178, TECH 264, TECH 276

## Christian Service Program

Following Jesus' example, Southern Adventist University encourages students to integrate their faith in learning. The Christian Service graduation requirement is intended to help students develop the abilities to become contributing members of churches, families, groups, and communities in a global society.

The Christian Service Program gives students the opportunity to serve in two main categories: community service and service-learning. Each service opportunity must be pre-approved and the requirement is as follows:

	Community Service Activities	Service-Learning Experiences	
<b>Summary</b>	<ul style="list-style-type: none"> <li>• Community Service Days</li> <li>• Approved Campus Ministries</li> <li>• Student Organization Service Events</li> </ul>	<ul style="list-style-type: none"> <li>• Service-Learning Classes</li> <li>• Student-Initiated Mentored Projects</li> <li>• Approved Mission Trip Experiences</li> </ul>	
<b>Goal</b>	To expose students to the community and its basic needs.	<b>Option A: Service-Learning Courses (Level 2):</b> To involve students in learning how academic theory and service to the community intersect.	<b>Option B: Student-Initiated Projects (Level 3):</b> To offer students the opportunity to use their leadership skills in developing and/or supporting a service project.

<b>Requirements</b>	Actively participate in three organized and pre-approved service events (3-5 hours each). Transferring sophomores need to complete two activities. Transferring juniors or seniors and associate's graduates need to complete one.	Complete two service-learning experiences. Transferring sophomores need to complete two. Transferring juniors or seniors and associate's graduates need to complete one.	
		The minimum hours required for service-learning credit is 15 regardless of project type. Clearly identified reflection opportunities are required and will be assessed by the instructor.	Students will propose and serve a minimum of 15 hours on a service project that will span an average of one semester with staff (mentor) oversight. This could be an existing project or a new project. The students must demonstrate a clear connection between the service and an academic component while proving that this project meets a community need.
<b>Meeting the Requirement</b>	Examples of pre-approved community service activities include, but are not limited to: Freshmen Service Day, MLK Community Service Day, Global Youth Service Day, Flag Camp, and Westside 4 Jesus. For a complete list of available pre-approved projects visit: <a href="http://www.southern.edu/serve">www.southern.edu/serve</a>	Service-learning classes (including approved mission trip classes) can be found in the online course schedule by clicking the "General Education Requirement" tab and selecting "SERV2 Christian Service" from the drop-down menu. By passing the course, you receive service-learning credit.	<ol style="list-style-type: none"> <li>1. Submit a proposal to the Service-Learning Department to do one of these projects. There must be mentor/supervisor for the project.</li> <li>2. The project cannot begin before approval.</li> <li>3. During the project there will be ongoing reflection (class discussion, journaling, etc.)</li> <li>4. After the project, the project mentor will evaluate the final reflection paper.</li> </ol> <p>For more information about the requirements and process go to: <a href="http://www.southern.edu/service">www.southern.edu/service</a></p>

It is the student's responsibility to identify and successfully complete these requirements one semester prior to graduation.

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**BACHELOR'S ASSOCIATE**

## **P. Physical Development**

**6 - 7      4 - 5**

In order to develop a student's focus on the importance of developing a health-promoting lifestyle, Southern Adventist University students will develop competencies which focus on both individual fitness and health science. Associate degree students must take PEAC 125 and one Health Science (P-2) course.

<b>1) Physical Activity</b>	<b>4</b>	<b>2</b>
a. PEAC 125		
b. 2 courses from ADAC 141, ADAC 142, ADAC 145, ADAC 146, ADAC 148, ADAC 151, ADAC 152, ADAC 155, ADAC 156, ADAC 160, ADAC 161, ADAC 162, ADAC 200, ADAC 212, ADAC 214, ADAC 215, ADAC 248, ADAC 262; PEAC 121, PEAC 123, PEAC 131, PEAC 133, PEAC 134, PEAC 136, PEAC 137, PEAC 140, PEAC 143, PEAC 153, PEAC 215, PEAC 223, PEAC 230, PEAC 231, PEAC 232, PEAC 235, PEAC 241, PEAC 243, PEAC 247, PEAC 257, PEAC 261, PEAC 254/RECR 254.		
c. PEAC 425		
<b>2) Health Science</b>	<b>2 - 3</b>	<b>2 - 3</b>
Select one course from HLED 173, HLNT 130, HLNT 135, or NRNT 125		

## O. Discipline-Specific Development

This student learning goal is accomplished by means of the student's chosen major. Depending on the approach taken by individual schools/departments, both the hours required to achieve competence as well as the assessment of attaining competence varies widely.

### Summary of General Education Hours

Area R – Spiritual Development	12	6
Area I – Intellectual Development	27-30	18-21
Area S – Individual and Social Development	10	4
Area P– Physical Development	6-7	4-5
<b>Totals</b>	<b>55-59</b>	<b>32-36</b>



# Student Life and Services

A university is not only classroom instruction, but also a mode of association. The effectiveness of the University program is enhanced if students develop their interests and meet their needs through participation in the nonacademic activities provided. Students are encouraged to take advantage of the facilities and opportunities planned for their cultural, social, and spiritual growth.

## Campus Safety

The Campus Safety department safeguards campus residents, property, and facilities. Its responsibilities include fire prevention and detection, traffic control, campus escort service, assistance with vehicle jump starts and lockouts, vehicle registration, card entry, arrangements for emergency after hours transportation, the maintenance of campus safety and order. Campus Safety is also responsible for the public address system, recording of programs and classroom presentations as per request. Campus Safety is located at 5061 Industrial Drive.

## Career Services

Career development is an integral part of a student's higher education. Career services facilitate lifelong career development through self-awareness, career exploration, career decision-making, and the implementation of career choices. Professional counselors are available to help students: clarify interests, values, and skills; choose an academic major; make decisions and explore potential careers; and develop skills in job seeking.

Recruiters from professional schools and organizations regularly visit the University to interview seniors. Meet the Firms, the Health Career Fair, and the Major/Minor Fair provide students with opportunities to network with employers and investigate curricular and career opportunities. Career Services is a part of the Counseling and Testing Services office located in the Student Success Center on the third floor of Lynn Wood Hall.

## Chaplain's Office

Any student of Southern Adventist University has the opportunity to enrich his/her personal relationship with Jesus through Campus Ministries activities. Through the programs coordinated from the Chaplain's Office, students can engage in a wide variety of on- and off-campus spiritual activities. Student leaders working with the campus chaplain direct activities such as LifeGroups (small groups, 70+ across campus), Outreach Ministries (10+ monthly in local Chattanooga area), Wellness, Talge Hall and Thatcher Hall visitation ministries, prayer ministry as well as numerous corporate worship programs (Vespers, InTents, Student Week of Prayer, and the Renewal Worship Service at the Collegedale SDA Church).

Southern Adventist University encourages a strong commitment to mission service. There are opportunities for short-term mission projects as well as traditional Student Missionary positions or volunteer Task Force positions. The Student Missionary assignments from the world divisions are published by the General Conference Adventist Volunteer Center on their web site. Students interested in any mission or Task Force position may work through the Chaplain's Office for information and placement in mission positions.

The campus chaplain serves as a pastor for the University campus. The chaplain is available for spiritual counseling, personal and relationship concerns, and biblical/baptismal studies. It is the desire of the Chaplain's Office to provide a safe, confidential setting for students to discuss personal issues. Since many university students choose a life partner while here at the University, the Chaplain also provides pre-marital counseling to aid in the establishment of healthy Christian relationships.

### **Concert-Lecture Series**

Each year a concert-lecture series featuring significant artists and lecturers is provided for students, generally in connection with the weekly convocation program. The cost of admission for students is included in the tuition.

### **Convocation**

Convocation exercises in the residence halls and for the entire student body serve educational and spiritual purposes. They also provide an element of unity which is one of the most desirable features of private education such as is found at Southern Adventist University. The spiritual emphasis weeks and the week-end church services assist in the spiritual growth of the students. Students are required to attend these services regularly. Failure to do so will jeopardize the student's current status and readmission privileges.

### **Counseling and Testing Services**

Each student is assigned an academic adviser who will assist in program planning and give advice and guidance on academic questions throughout the school year. Students may also seek counseling regarding academic concerns from any member of the faculty.

Students who wish to seek assistance from a professional counselor should contact Counseling Services in the Student Success Center located on the third floor of Lynn Wood Hall (423.236.2782). A wide variety of resources to assist students adjust to university life are available. Personal and career counseling, consultation, testing, and referral services are provided in a confidential caring environment.

Southern Adventist University is an established non-Saturday National Test Center for the administration of entrance examinations for students applying to graduate and professional schools. Contact Testing Services in the Student Success Center for test applications and test date information.

### **Dining**

For the promotion of student health and enjoyment, Southern Adventist University provides a complete vegetarian cafeteria service, organized to serve student needs. The spacious dining hall is an inviting center of social and cultural life at the University, and service by the cafeteria staff is available for the many student and faculty social functions. Auxiliary dining rooms are available for meetings of various student or faculty organizations. The Food Service Department also operates three vegetarian fast-food shops on the campus. K.R.'s Place is conveniently located in the Student Center, the Campus Kitchen is at the nearby

Fleming Plaza, and the Kayak is in the Hulsey Wellness Center. The Kayak offers all fruit smoothies and more healthy choices of sandwiches and snacks.

## **Disabilities - Rehabilitation Act (1973) Section 504: Services for Students with Disabilities**

Students with disabilities that could impact their learning experiences at Southern must call Disability Support Services (DSS) at 423.236.2574 or come to room 137 on the first floor of Lynn Wood Hall to schedule an appointment with the Disability Services Coordinator to request accommodations. It is expected that students with disabilities will make this contact before or during the first three weeks of the semester. Otherwise, the process of certifying eligibility and arranging for reasonable accommodations might not be completed in time to meet their needs before mid-term. Students who contact DSS after the first month of a semester might not expect to receive accommodations for that semester.

Southern is in compliance with Section 504 of the Rehabilitation Act (1973) and is dedicated to the elimination of architectural and prejudicial barriers which prevent any qualified person from attending. Southern has established DSS to provide academic disability services according to the provisions of applicable disability law.

The University does not assume responsibility for identifying students who qualify for accommodations or services. Students must 1) voluntarily (and confidentially) identify to the Disability Services Coordinator as having a qualifying disability and 2) provide appropriate documentation to support requests for accommodations.

Details about services as well as the requirements and processes involved in requesting accommodations at Southern can be found at <http://www.southern.edu/disabilitysupport>.

## **Discipline**

Discipline refers to any action taken by Southern Adventist University relative to a student's social standing. All student disciplinary procedures are under the direction of the Vice-President for Student Services, who works with the residence hall deans in handling student disciplinary cases. The vice-president for Student Services may separate a student from the school, suspend a student, deny re-admission, or place a student on citizenship probation. For further details, consult the Student Handbook.

## **Orientation Program**

Southern Adventist University has a personal interest in the success of the student desiring a university education. There is much that the student must do to get acquainted with the academic, social, and religious life of the University by perusing this Catalog and the Southern Adventist University Student Handbook. Instruction and counsel are given which will help the student better understand the University program and what is expected of him/her as a citizen of the University community.

A comprehensive new student orientation is held at the beginning of each semester. The student is introduced to the facilities, purposes, and functions of the University. Social occasions are also provided when students may meet

faculty members and fellow students. All new freshmen and transferring students are required to attend the orientation program.

## **Photo Release**

By enrolling at Southern Adventist University, students authorize the use and reproduction by the University, or anyone authorized by the University, of any images taken while enrolled at the University, whether video or photo, film or digital, whether distributed by print medium, video cassette, CD, DVD, Internet, television, or any other mode or medium, whether now existing or subsequently developed. All such images, however stored, shall constitute Southern Adventist University property solely and completely. Students will not be entitled to compensation for the use of the images.

## **Residence Hall Living**

Living in a university residence hall with its daily “give and take” prepares the student to meet life with equanimity, teaches respect for the rights and opinions of others, and offers first-hand experience in adjusting to a social group. Four residence halls that serve the needs of our students are: Talge Hall, Thatcher Hall, Thatcher South, and Southern Village.

To assure students this beneficial experience, the University requires those students who take more than three semester hours of class work and who are unmarried, under 23 years of age, and not living with their parents or other approved relatives in the vicinity, to reside in one of the residence halls. Those over the age 23 may be asked to find alternate housing either in Student Family Housing or off-campus.

## **Social Activities and Organizations**

The Director of Student Life and Activities plans social activities in consultation with the Student Activities Committee. Additional social programs are sponsored during the year by clubs and organizations.

In addition to the Student Association, more than 30 campus organizations provide opportunities for enrichment, leadership training, and enjoyment. They include church-related organizations—Campus Ministries; Student Ministerial Association; clubs related to academic interests sponsored by the departments; social clubs—Sigma Theta Chi (women), Upsilon Delta Phi (men), Black Christian Union, Christian Veterans Association and the Latin American Club, and special interest or hobby clubs.

## **Standards of Conduct**

In harmony with the objectives of the University, high standards of behavior are maintained to encourage the development of genuine Christian character. Mature Christian students of sound spiritual and social integrity appreciate standards that elevate and ennoble. Admission to Southern Adventist University is a privilege that requires the acceptance of and compliance with published and announced regulations. Only those whose principles and interests are in harmony with the ideals of the University and who willingly subscribe to the social program as ordered are welcomed. It therefore follows that since students at Southern Adventist University receive an education subsidized by the Seventh-day Adventist Church, those who engage in activities determined to be

detrimental to the church on or off campus will not be knowingly accepted or retained.

A student who is out of harmony with the social policies of the University, who is uncooperative, and whose attitude gives evidence of an unresponsive nature may be advised to withdraw without specific charge.

Each student is expected to become acquainted with the standards of conduct published in the Southern Adventist University Student Handbook. The handbook includes levels of social discipline and the appeal route. A copy may be obtained from the office of the Vice President for Student Services. Interim announcements of policies adopted by the administration are of equal force with those listed in official publications.

## Student Association

Every undergraduate student at Southern Adventist University who is taking eight or more semester hours of class work is a member of the Student Association with voting privileges in the election of officers. The association affords opportunities for leadership development and for cooperation in achieving the objectives of Southern Adventist University. The association assists the University administration and faculty in the implementation of policies and assumes responsibility in giving direction to campus activities entrusted to it. The association's activities are coordinated and communicated through the Student Senate and cabinet and their several committees. The activities and responsibilities of the officers and the detailed organization of the Student Association are outlined in the Student Association Constitution and Bylaws.

## Student Employment

Southern Adventist University encourages every student to balance work and study. If a student wants to work, is physically and emotionally able to work, and has arranged his/her class schedule to accommodate a reasonable work schedule, he/she may be able to obtain employment on campus. Students seeking employment should contact the Human Resources Office for information; however, students are responsible for securing their own employment.

## Student Insurance

**Injury Insurance** - Injury insurance is included in your school fees and is automatically given to students taking six hours or more. This coverage is for students who are accidentally injured on campus or on a school-sponsored trip. This card must be downloaded from United Healthcare's website: [www.uhcsr.com/southern](http://www.uhcsr.com/southern). Create an account, then log back in and print your ID cards. Medical facilities should bill this insurance as your primary insurance. It will pay up to \$2,500 of the costs involved in medical help following an injury.

**Health Insurance** - The University requires all students to have adequate accident and health insurance, covering both inpatient and outpatient services. The same coverage is encouraged for spouses and dependents. All students must submit the Student Insurance Information form at the beginning of each school year. This online form can be found at: [www.southern.edu/risk/students](http://www.southern.edu/risk/students). Students taking six or more hours (three or more hours during any summer session), or living in university housing, are automatically enrolled in the university health and accident plan at the time of registration unless the waiver portion of the Insurance Information Form is filled out indicating the student has other

comparable coverage. Students will continue to be enrolled each successive fall semester unless a waiver is completed. Students who have signed a waiver form may later request enrollment. A refund of the premium is allowed only upon entry into the military services or by providing evidence of other insurance prior to midterm. A policy brochure describing benefits, terms, and limits is available on the Risk Management website, [www.southern.edu/risk](http://www.southern.edu/risk). This card must be downloaded from United Healthcare's website: [www.uhcsr.com/southern](http://www.uhcsr.com/southern). Create an account, then log back in and print your ID cards.

## **Student Publications and Productions**

As a vital part of its community of learning, Southern Adventist University sponsors the production of a variety of media by its students. When exercised in the spirit of Christian fellowship, responsible freedom of expression and debate of issues enhances the university community. Editors and producers are encouraged to express themselves freely within the parameters of the philosophy, standards, and mission statement of the University.

Student media are the voices of both students and faculty, representing the visual and creative arts, both in print and non-print formats. The student media provides a marketplace of ideas in a university environment. Student media serve not only the current residents of the campus, but also document the culture and history of the institution.

Approved student-produced media on campus are the Festival Studios (multimedia year in review), Joker (pictorial directory), Numerique (student phone directory), Southern Accent (student newspaper), Southern Memories (yearbook), and Campus Chatter (weekly announcements). Southern Adventist University is the legal publisher of all of the approved student-produced media.

## **University Health Center**

The University Health Center strives to provide high quality health care for the students of Southern Adventist University. Services are provided by a mid-level practitioner under the supervision of a physician. The Health Center is open during regular university working hours. To maximize health care for all students it is the normal procedure for students to be seen at the Health Center.

The Health Center is available to all students and student dependents, ages ten and older, that are on school insurance.

All charges incurred at the UHC will be charged to the student's account. The UHC will submit claims for students using Southern's student insurance. The insurance reimbursement is posted to the student's account when it is received. The UHC is unable to process claims for students with private insurance, so students should plan to file their own insurance. A walk-out statement summarizing fees for services provided is available upon request. For further details, consult the Student Handbook.

## **Writing Center**

The goal of the Writing Center is to provide a relaxed and friendly atmosphere in which Southern Adventist University students across the curriculum can become more comfortable with the writing process. The Writing Center strives to cultivate the importance of the process of writing and to help students become

independent writers, capable of recognizing and utilizing their strengths while identifying and correcting their weaknesses.

Writing Center tutors—students who have been trained to help with essay writing, research papers, documentation, and grammar—offer free writing assistance to current, on-campus Southern students. Each student is allowed one 30-minute session per day. Students with long assignments—ten pages or more—may request a 60-minute session; the Writing Center will do its best to accommodate those requests. All students are encouraged to make appointments before bringing in their work; however, walk-in sessions are welcome when space is available. To learn more about the Writing Center and to schedule appointments, students can visit <http://southern.libguides.com/writingcenter>.

### **E. A. Anderson Lecture Series**

The E. A. Anderson Lecture Series is an annual feature of the business curriculum. The series is made possible by the generosity of E. A. Anderson of Atlanta, Georgia, for the purpose of giving the student a broader understanding of the business world. The public is invited to attend the lectures free of charge; however, for a fee, continuing education credit is available. Lectures are presented at 8 p.m. on Monday evenings during the second semester, in the E. A. Anderson Business Seminar Room, Brock Hall, Room 333.

### **Eugene A. Anderson Organ Concert Series**

The Eugene A. Anderson Organ Concert Series was initiated in 1986 to provide world-class organ concerts on the campus of Southern Adventist University. The foremost organists from throughout the world present these concerts. Select performances are broadcast internationally on the American Public Radio Program, "Pipe Dreams." The series is made possible through the generosity of Eugene A. Anderson of Atlanta, Georgia, for the education and enjoyment of the students and the general public.

The Anton Heiller Memorial Organ, a 70-stop 108-rank tracker organ, was dedicated in the Collegedale Seventh-day Adventist Church in April, 1986, and is the largest of its kind in North America. A second instrument, a Renaissance mean-tone organ with two manuals and 13 stops, is housed in the music building's Ackerman Auditorium. Both were built by John Brombaugh and Associates of Eugene, Oregon.

### **Chamber Music Series**

Ackerman Auditorium in J. Mabel Wood Hall is the setting for the Chamber Music Series. Each semester two or three artists and/or ensembles provide a variety of listening experiences for students, faculty, and the community. Artists are chosen in such a fashion that over a four-year period a student can become acquainted with solo and ensemble music of many style periods. Master classes are often scheduled in conjunction with a concert.

### **E. O. Grundset Lecture Series**

The E. O. Grundset Lecture Series is jointly sponsored by the Southern Adventist University Chapter (Kappa Phi) of the Beta Beta Beta National Biological Honor Society and the Biology Department. Five or more lectures are presented each semester by guest speakers. The general public is invited.

The lectures are divided into two categories. The Technical Research Seminars are designed to update students, faculty, and the community on current biological research as well as to illustrate to students how biological knowledge is acquired through research. The Natural History Lectures are less technical and provide a general understanding of organismic and ecological biology, either by a description of the plants or animals in a certain region or an account of the behavior, habits, or ecology of certain species.

### **Gerhard F. Hasel Lectureship on Biblical Scholarship**

The Gerhard F. Hasel Lectureship on Biblical Scholarship serves to promote biblical scholarship, particularly by inviting recognized non-Seventh-day Adventist scholars to lecture on the campus of Southern Adventist University each winter semester. The lectureship also serves to maintain a mutually helpful interchange between Adventist and non-Adventist biblical scholars, and to expose students and faculty to varied research and views in order to challenge and fortify reasons for biblical faith. The lectureship is sponsored by the E. G. White Memorial Chair in Religion.

### **Institute of Archaeology**

The Institute of Archaeology, under the auspices of the School of Religion, coordinates archaeological programs through course offerings, the Lynn H. Wood Archaeological Museum, laboratories, the William G. Dever Research Library, excavations, and publications.

### **Institute of Evangelism and World Missions**

The Robert H. Pierson Institute of Evangelism and World Missions, under the auspices of the School of Religion, provides coordination and funding for students and faculty to engage in direct evangelistic and missionary opportunities, as well as research and resources through the Evangelistic Resource Center.

### **Learning Success Services**

Learning Success Services (LSS), located on the third floor of Lynn Wood Hall, provides staff and equipment in a supportive Christian environment to assist and encourage all students in their pursuit of learning. One-on-one tutoring by appointment is available in most academic areas. Students with expertise in academic areas are encouraged to seek employment as tutors. LSS offers seminars, classes, and tutoring in study skills, time management, organization, and learning. The Disability Services office is also at LSS. Students with documented disabilities should read the section about Disabilities in this Catalog.

### **Libraries**

To provide outstanding assistance for both residential and distance education students, McKee Library provides a wide range of resources and services through its web page and on site.

The <http://library.southern.edu> page provides access to an array of full-text databases, indexes, e-books, peer-reviewed journals, serials, and digitized materials. Patrons utilize the library website to find books, submit interlibrary loan requests, schedule consultations with librarians, reserve study rooms, renew loans, view tutorials and floor plans, access e-reserve items, and make use of the Ask-a-Librarian feature to get research advice.



When visiting the recently remodeled library facility, students can benefit from one of fifty computer workstations, borrow one of twenty wireless-enabled laptops, have a group study session in one of the study rooms, attend an information literacy session, get help at the Writing Center on the main level, examine the Civil War collection housed on the third floor in the Thomas Memorial Collection, study, read newspapers, or enjoy an art display.

While on campus, users can also visit the Teaching Materials Center—an educational curriculum collection in Summerour Hall—to explore elementary and secondary curriculum materials and teaching guides and make use of Ellison dies, laminators, and other resources. In addition, users can visit the William G. Dever Research Library, Southern Adventist University’s new archaeology library that houses a premier collection of archaeological resources, and the music collection, located in the School of Music. Professional librarians and staff are available to help with individual and group reference and instruction.

### **Lynn H. Wood Archaeological Museum**

The Lynn H. Wood Archaeological Museum in Hackman Hall provides the basis for a stunning visual display of more than two hundred objects from Egypt, Babylonia, Persia, Syria-Palestine, Greece, Cyprus, and Anatolia. Illustrated through hundreds of photographs, drawings, and original art, the exhibit is designed to introduce artifacts in their ancient life-setting. Highlights include an ancient Babylonian brick stamped with Nebuchadnezzar’s name, a complete series of lamps from the Chalcolithic to the early Arabic periods, a rare Syrian clay model of a chariot complete with wheels, handwritten cuneiform tablets from ancient Ur in Mesopotamia, and a series of Syrian toggle pins from the Middle Bronze Age. Through teaching, exhibition, conservation, and the annual Museum Lecture Series, the museum provides educational opportunities for university students and the community at large.

### **Marine Biological Station**

Southern Adventist University is affiliated with Walla Walla University’s Rosario Beach Marine Biological Station to enrich and supplement its on-campus programs.

This Marine Biological Station is located on Fidalgo Island in the Puget Sound in the state of Washington and provides students with opportunities to study marine habitats in a temperate climate. This station also furnishes facilities for summer class work and research. Its close proximity to biomes ranging from sea bottom to Alpine tundra provides an excellent opportunity for instruction and investigation.

### **Robert H. Pierson Lecture Series**

The Robert H. Pierson Lectureship is sponsored in November of every year by the School of Religion under the auspices of the Robert H. Pierson Institute of Evangelism and World Mission. The lectures are meant to facilitate the training of ministers and other religion majors in Biblical Studies, Theology, History, Adventist Studies, Homiletics, Church Leadership, and in other areas of preparation.

### **William G. Dever Research Library**

The William G. Dever Research Library located adjacent to the Lynn H. Wood Archaeological Museum in Hackman Hall contains three major collections that

comprise nearly 3,000 volumes and 20 different journal titles in the areas of archaeology, biblical studies, ancient Near Eastern languages, and Egyptology. The collections are fully integrated with the university library system for searching and research.

### **WSMC FM90.5**

Classical 90.5 WSMC is a 100,000 watt, noncommercial, radio station licensed to Southern Adventist University.

WSMC provides training for students in the field of broadcasting, marketing, and community engagement. The station regularly hires between 10 and 15 students as on-air announcers, producers, and public relations assistants. The station is an excellent way for the student to receive hands-on experience in the field of broadcasting and public radio/development.

WSMC represents the University to the Greater Chattanooga community, with a coverage area including a 94-mile radius of Chattanooga. Founded in 1961, it is the oldest noncommercial fine arts station in southeastern Tennessee. WSMC was the first radio station in a seven-state region to receive satellite capability. The station also exists as an outreach of the University-striving to enhance the quality of life in the community.

The station produces high-quality fine arts, informational, educational, and inspirational programs. WSMC broadcasts programs from NPR and American Public Media, as well as news from the BBC.

WSMC's broadcast studios are located on Industrial Drive across from Brock Hall. The facility includes a production room, music library, and on-air studio.

# Degrees and Curricula

**A Doctor of Nursing Practice** consists of at least five (5) semesters of course work beyond the master's degree. It offers two (2) areas of emphases and requires a scholarly project.

**A Master's degree** consists of at least one additional year of course work beyond the bachelor's degree. It includes a field of concentration and may require a thesis.

**The Bachelor of Arts degree** consists of four years of course work that places a student's major field of study in the context of a liberal arts education. To encourage a wide range of studies, a minor is required. A foreign language component is required.

**The Bachelor of Science degree** consists of four years of course work that places the student's major field of study in the context of a liberal arts education. The degree permits greater concentration in the field of study. No minor or foreign language study is required except as specified for certain majors.

**The Bachelor of Business Administration degree** is a professional degree consisting of a four-year program with concentrations available in various fields of business. Requirements for this degree are outlined in the School of Business and Management section.

**The Bachelor of Fine Arts degree** consists of four years of course work allowing the student the focus to develop a body of work in drawing and painting. No minor is required.

**The Bachelor of Music degree** is a professional degree consisting of four years of course work designed to meet the needs of students wishing to receive teaching credentials. Requirements for this degree are outlined in the School of Music section.

**The Bachelor of Social Work degree** is a professional degree consisting of a four-year program of courses designed to meet the needs of students wishing to go into the social work profession. Requirements for this degree are outlined in the School of Social Work section.

**The Associate of Arts degrees** is a two-year program designed to meet the needs of students who wish to pursue a short general studies program.

**The Associate of Science degree** is a two-year program designed to meet the needs of students who wish to pursue a short occupational or pre-professional program.

**The Associate of Technology degree** is a two-year program designed to meet the needs of students who wish to pursue an occupational program.

**The One-Year Certificate** is available for students in the Auto Mechanics Technician and in a Bible worker program. Requirements for these certificates are outlined in the Technology Department and in the School of Religion.

**Paraprofessional Curricula** are programs designed to prepare students to enter professional schools. In some cases paraprofessional curricula will lead to an associate degree.

# Allied Health

**Chair:** Keith Snyder

**Faculty:** Joyce L. Azevedo, L. Ann Foster, Rick Norskov, Tim Trott

**Program Adviser:** Robert Young

**Program Coordinator:** Randy Bishop

**Medical Laboratory Science Adviser:** Robert Young

**Medical Laboratory Science:** Marcia Kilsby, Albert McMullen, Karen Reiner, Richard Show

The Allied Health Professions are rapidly growing areas of specialization within the health care industry. Job openings are plentiful and pay scales are comparable to other professionals in health care. The department offers a B.S. degree in Medical Laboratory Science and A.S. degrees in a number of Allied Health fields.

## Mission Statement

The Allied Health branch of the Biology/Allied Health Department exists to coordinate the advising of students who require prerequisite courses for entrance into a variety of clinical programs in the medical, dental, and health professions, as well as to promote these professions as meaningful career options providing opportunities for Christian service.

## Assessment

The programs in this department vary extensively depending on the particular health career and the requirements of the specific schools which offer the clinical programs. Southern Adventist University continually monitors the requirements of these clinical programs and modifies its preprofessional curricula to meet the changes when they are made. Continual assessment is made essentially by the advisers in the department who measure their effectiveness by their success in structuring programs to meet individual student needs and to meet requirements of the professional school where the student will transfer. The entrance rate of students into professional programs is also used to assess adequacy of class offerings and program requirements.

## Bachelor of Science in Medical Laboratory Science

**Program Adviser:** Bob Young

**Program Coordinator:** Randy Bishop

The Bachelor of Science degree with a major in medical laboratory science (medical technology) consists of three years of prescribed study at Southern Adventist University and a three semester senior year in an affiliated medical laboratory science program accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS), Rosemont, IL. The medical laboratory science program affiliated with Southern Adventist University is Andrews University, Berrien Springs, MI.

The Medical Laboratory Science degree qualifies a person to take the national certification examination for medical laboratory scientists, offered by the

Board of Certification of the American Society for Clinical pathology (ASCP). Certified laboratory professionals work in hospitals, clinics, physicians' offices, public health agencies, private laboratories, pharmaceutical firms, and research institutions.

The curriculum prescribed by Southern is designed to meet the requirements of the University and of NAACLS.

Occasionally pre-dental students, pre-medical students, and graduating seniors in biology or chemistry may wish to become certified Medical Lab Scientists. This is possible if the student plans courses to fulfill the requirements of the University and the affiliated medical laboratory science program.

During the fall semester of the third year, students must apply for admission through a separate admission process to the Andrews University Program for Medical Laboratory Sciences. Acceptance into the Program is determined by the Program's Admissions Committee. To be eligible for admission, a student must complete all of Southern's course requirements prior to beginning the clinical (senior) year. The overall grade point average (GPA) must meet Southern's graduation requirement. The Andrews clinical program does not accept students with less than a 2.50 cumulative average on a 4.00 system. To have a competitive application, it is recommended that a 3.00 cumulative average is maintained. Although acceptance to Andrews Program is granted during the winter semester of the junior year, the acceptance is conditional, pending satisfactory completion of the stated admission criteria. Should a student's GPA fall below 2.50 or the student fail a winter semester course, the acceptance to the Andrews Program will be rescinded.

Grades of C- or better and a minimum GPA of 2.50 are required in the major and cognates.

Twenty hours of upper division credit, including two writing (W) courses are required. One (W) course must be in a cognate area and one in a noncognate area.

## **Associate of Science in Allied Health**

Students who plan to graduate from Southern with an Associate Degree in Allied Health must meet the A.S. degree General Education requirements of Southern as well as the entrance requirements of the clinical program to which they will be applying.

Applications for transfer to the colleges offering Allied Health programs should be made during the first semester of the final year at Southern. Students should consult the program that they plan to apply to for specific application deadlines.

Most programs require a minimum of a "C" grade for transfer credits. A minimum grade point average of 2.00 is required for the Associate of Science degree at Southern, but grade point averages between 2.00 and 2.50 are considered minimal for entrance to the junior year of most clinical Allied Health programs. Some programs required the Allied Health Professions Admissions Test (AHPAT).

*NOTE: Due to rapidly changing health care requirements, please contact the individual college/university for recent curriculum changes.*

The major Allied health areas in which an Associate Degree may be earned at Southern Adventist University are:

- **Two-year A.S. degree:**

- pre-Dental Hygiene
- pre-Nutrition and Dietetics
- pre-Speech Language Pathology & Audiology

- **Three-year A.S. degree:**

- pre-Physical Therapy

The department also offers one-year curricula to meet requirements for entrance into the following Allied Health degree programs:

- Occupational Therapy Assistant (Associate in Science Degree)
- Physical Therapy Assistant (Associate in Science Degree)
- Radiation Technology (Associate and Bachelor of Science Degrees)

For details on these or other programs not offered at Southern Adventist University contact:

Allied Health Programs Adviser  
Southern Adventist University  
P.O. Box 370  
Collegedale, TN 37315-0370

## **ALLIED HEALTH PRE-DENTAL HYGIENE, A.S.**

**Adviser:** Randy Bishop

Dental hygienists provide preventative dental care and encourage patients to develop good oral hygiene skills. In addition to carrying out clinical responsibilities such as cleaning and scaling teeth, hygienists educate patients in ways to develop and maintain good oral health. Although most hygienists work with individual patients, some develop and promote community dental health programs. In addition to career opportunities within dental offices, dental hygienists apply their skills and knowledge in other career activities including office management, business administration, dental hygiene education, research and marketing of dental related equipment and materials.

The program below meets admission requirements for Loma Linda University, as well as Southern Adventist University's requirements for an A.S. degree. This program can be modified to meet the requirements of other schools. For a complete description of Southern's General Education requirements, refer to Academic Policies.

### **Required Courses**

ALHT 111	Introduction to the Health Professions	<b>1 hour</b>
BIOL 101	Anatomy and Physiology (I-4a)	<b>4 hours</b>
BIOL 102	Anatomy and Physiology (I-4a)	<b>4 hours</b>
CHEM 111	Survey of Chemistry I (I-4b)	<b>3 hours</b>
CHEM 112	Survey of Chemistry II	<b>3 hours</b>
CHEM 113	Survey of Chemistry Laboratory I	<b>1 hour</b>

CHEM 114	Survey of Chemistry Laboratory II	<b>1 hour</b>
BIOL 225	Basic Microbiology	<b>4 hours</b>
HLED 173	Health for Life (P-2)	<b>2 hours*</b>
MATH 120	Precalculus Algebra (I-2a)	<b>3 hours**</b>
PSYC 122	General Psychology (S-2)	<b>3 hours</b>
SOCI 125	Introduction to Sociology (S-2)	3 hours
SOCI 150	Cultural Anthropology (I-3b) (S-2)	<b>3 hours</b>
or SOCI 230	Multicultural Relations (I-3b)	<b>3 hours</b>
<b>TOTAL 35 HOURS</b>		

*\*May be substituted by NRNT 125 or HLNT 135*

*\*\*A student may petition to take MATH 111 or MATH 116*

*NOTE: C is the lowest acceptable grade*

*Recommended: BIOL 255*

## General Education Courses

### Area R-1

RELB 125	Life and Teachings of Jesus (R-1)	<b>3 hours</b>
or RELT 177	Christian Spirituality (R-1)	<b>3 hours</b>
<b>TOTAL 3 HOURS</b>		

### Area R-2 or R-3

RELT 138, RELT 225, RELT 255		
or any RELB course except RELB 125		<b>3 hours</b>
<b>TOTAL 3 HOURS</b>		

### Area I-1a

ENGL 101	College Composition I (I-1a)	<b>3 hours</b>
<b>TOTAL 3 HOURS</b>		

### Area I-1b

ENGL 102	College Composition 2 (I-1b)	<b>3 hours</b>
<b>TOTAL 3 HOURS</b>		

### Area I-1c

COMM 135	Introduction to Public Speaking (I-1c)	<b>3 hours</b>
<b>TOTAL 3 HOURS</b>		

### Area I-2b

Concept-based 1 hour		
BUAD 217	Business-Computer Concepts and Applications (I-2b, I-2c)	<b>3 hours*</b>
CPTE 100	Computer Concepts (I-2b)	<b>1 hour</b>
CPTR 110	Computational Thinking for the Sciences (I-2b, I-2c)	<b>3 hours*</b>
EDUC 319	Technology in Education (I-2b, I-2c)	<b>3 hours*</b>

*\*Covers both concept and skills based course*

**TOTAL 1 HOUR**

### Area I-2c

Skills-based 2 hours		
ARTG 115	Introduction to Computer Graphics (I-2c)	<b>3 hours</b>
BUAD 217	Business-Computer Concepts and Applications (I-2b, I-2c)	<b>3 hours</b>

CPTe 105	Introduction to Word Processing (I-2c) <b>1 hour</b>
CPTe 106	Introduction to Spreadsheets (I-2c) <b>1 hour</b>
CPTe 107	Introduction to Database (I-2c) <b>1 hour</b>
CPTe 109	Presentation Technology (I-2c) <b>1 hour</b>
CPTe 110	Introduction to Web Development (I-2c) <b>1 hour</b>
CPTR 110	Computational Thinking for the Sciences (I-2b, I-2c) <b>3 hours</b>
EDUC 319	Technology in Education (I-2b, I-2c) <b>3 hours</b>
MUED 250	Technology in Music Education (I-2c) <b>2 hours</b>
NRSg 240	Introduction to Healthcare Informatics (I-2c) <b>1 hour</b>
TECH 248	CADD Mechanical (I-2c) <b>3 hours</b>
<b>TOTAL 2 HOURS</b>	

**Area I-3a**

Any HIST course **3 hours**  
**TOTAL 3 HOURS**

**Area S-1a**

NOND 101 Southern Connections (S-1) **1 hour**  
**TOTAL 1 HOUR**

**Area 1-3c, S-3a, S-3b**

World Lang/Lit/Music & Art Appr course (from 2 different areas) **5 hours**  
**TOTAL 5 HOURS**

**Area P-1a**

PEAC 125 Fitness for Collegiate Life (P-1a) **1 hour**  
**TOTAL 1 HOUR**

**Area P-1b**

ADAC, OLAC, RECR, or PEAC course **1 hour**  
**TOTAL 1 HOUR**

**Electives**

Electives to make a total of 64 hours

**ALLIED HEALTH PRE-NUTRITION AND DIETETICS, A.S.**

**Adviser:** Randy Bishop

Dietitians and nutritionists use their knowledge of the principles of nutrition to help people develop healthy eating habits. Dietitians may be involved in setting up and supervising food service systems for institutions such as hospitals, prisons, and schools; and promoting sound eating habits through education and research. Clinical dietitians provide nutritional services for patients in hospitals, nursing homes, clinics, or doctors' offices. Community dietitians counsel individuals and groups on nutritional practices designed to prevent disease and promote good health. Management dietitians are responsible for large scale meal planning and preparation in such places as hospitals, nursing homes, company cafeterias, and schools.

Southern Adventist University offers associate degree programs which provide the prerequisite courses for entrance into the final two years of the bachelors degree programs of both Andrews University and Loma Linda University. These programs can be modified to meet requirements of other schools as well.



## Andrews University Track

The program below meets the admission requirements for Andrews University, as well as Southern Adventist University's requirements for an A.S. degree. For a complete description of Southern's General Education requirements, refer to Academic Policies.

### Required Courses

ALHT 111	Introduction to the Health Professions	<b>1 hour</b>
BIOL 101	Anatomy and Physiology (I-4a)	<b>4 hours</b>
BIOL 102	Anatomy and Physiology (I-4a)	<b>4 hours</b>
BIOL 225	Basic Microbiology	<b>4 hours</b>
BMKT 326	Principles of Marketing	<b>3 hours</b>
CHEM 111	Survey of Chemistry I (I-4b)	<b>3 hours</b>
CHEM 112	Survey of Chemistry II	<b>3 hours</b>
CHEM 113	Survey of Chemistry Laboratory I	<b>1 hour</b>
CHEM 114	Survey of Chemistry Laboratory II	<b>1 hour</b>
NRNT 125	Nutrition (P-2)	<b>3 hours</b>
PSYC 122	General Psychology (S-2)	<b>3 hours</b>
SOCI 125	Introduction to Sociology (S-2)	<b>3 hours</b>
MATH 120	Precalculus Algebra (I-2a)	<b>3 hours</b>
	or MATH 215 Statistics (I-2a)	<b>3 hours</b>

**TOTAL 36 HOURS**

*NOTE: C is the lowest acceptable grade*

### General Education Courses

#### Area R-1

RELB 125	Life and Teachings of Jesus (R-1)	<b>3 hours</b>
	or RELT 177 Christian Spirituality (R-1)	<b>3 hours</b>

**TOTAL 3 HOURS**

#### Area R-2 or R-3

RELT 138, RELT 225, RELT 255, or any RELB course except RELB 125 **3 hours**

**TOTAL 3 HOURS**

#### Area I-1a

ENGL 101	College Composition I (I-1a)	<b>3 hours</b>
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**TOTAL 3 HOURS**

#### Area I-1b

ENGL 102	College Composition 2 (I-1b)	<b>3 hours</b>
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**TOTAL 3 HOURS**

#### Area I-1c

COMM 135	Introduction to Public Speaking (I-1c)	<b>3 hours</b>
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**TOTAL 3 HOURS**

#### Area I-2b

Concept-based 1 hour

BUAD 217	Business-Computer Concepts and Applications (I-2b, I-2c)	<b>3 hours*</b>
CPTC 100	Computer Concepts (I-2b)	<b>1 hour</b>
CPTC 110	Computational Thinking for the Sciences (I-2b, I-2c)	<b>3 hours*</b>

EDUC 319 Technology in Education (I-2b, I-2c) **3 hours\***

*\* Covers both concepts and skills course*

**TOTAL 1 HOUR**

**Area I-2c**

Skills-based 2 hours

ARTG 115 Introduction to Computer Graphics (I-2c) **3 hours**

BUAD 217 Business-Computer Concepts and Applications (I-2b, I-2c) **3 hours**

CPTG 105 Introduction to Word Processing (I-2c) **1 hour**

CPTG 106 Introduction to Spreadsheets (I-2c) **1 hour**

CPTG 107 Introduction to Database (I-2c) **1 hour**

CPTG 109 Presentation Technology (I-2c) **1 hour**

CPTG 110 Introduction to Web Development (I-2c) **1 hour**

CPTR 110 Computational Thinking for the Sciences (I-2b, I-2c) **3 hours**

EDUC 319 Technology in Education (I-2b, I-2c) **3 hours**

MUED 250 Technology in Music Education (I-2c) **2 hours**

NRSNG 240 Introduction to Healthcare Informatics (I-2c) **1 hour**

TECH 248 CADD Mechanical (I-2c) **3 hours**

**TOTAL 2 HOURS**

**Area I-3a**

HIST 174 World Civilizations I (I-3a) **3 hours**

or HIST 175 World Civilizations II (I-3a) **3 hours**

**TOTAL 3 HOURS**

**Area S-1**

NOND 101 Southern Connections (S-1) **1 hour**

**TOTAL 1 HOUR**

**Area P-1a**

PEAC 125 Fitness for Collegiate Life (P-1a) **1 hour**

**TOTAL 1 HOUR**

**Area P-1b**

ADAC OLAC RECR or PEAC course **1 hour**

**TOTAL 1 HOUR**

**Select 3 hours from the following:**

ARTH 218 Art Appreciation (S-3b) **3 hours**

or ELIT 216 Approaches to Literature (S-3a) **3 hours**

or HMNT 205 Arts and Ideas (S-3b) **3 hours**

or MUHL 115 Music in Western Culture (S-3b) **3 hours**

**TOTAL 3 HOURS**

**Electives**

Electives to make a total of 64 hours

**Loma Linda University Track**

The program below meets admission requirements for Loma Linda University, as well as Southern Adventist University's requirements for an A.S. degree. For a complete description of Southern's General Education requirements, refer to Academic Policies.

**Required Courses**

ALHT 111	Introduction to the Health Professions	<b>1 hour</b>
BIOL 101	Anatomy and Physiology (I-4a)	<b>4 hours</b>
BIOL 102	Anatomy and Physiology (I-4a)	<b>4 hours</b>
BIOL 225	Basic Microbiology	<b>4 hours</b>
CHEM 151	General Chemistry (I-4b)	<b>4 hours</b>
NRNT 125	Nutrition (P-2)	<b>3 hours</b>
PSYC 122	General Psychology (S-2)	<b>3 hours</b>
SOCI 125	Introduction to Sociology (S-2)	<b>3 hours</b>
SOCI/PSYC/PLSC Elective		<b>3 hours</b>
<b>TOTAL 29 HOURS</b>		

*NOTE: C is the lowest acceptable grade*

**General Education Courses****Area R-1**

RELB 125	Life and Teachings of Jesus (R-1)	<b>3 hours</b>
or RELT 177	Christian Spirituality (R-1)	<b>3 hours</b>
<b>TOTAL 3 HOURS</b>		

**Area R-2 or R-3**

RELT 138, RELT 225, RELT 255, or any RELB course except RELB 125	<b>3 hours</b>
<b>TOTAL 3 HOURS</b>	

**Area I-1a**

ENGL 101	College Composition I (I-1a)	<b>3 hours</b>
<b>TOTAL 3 HOURS</b>		

**Area I-1b**

ENGL 102	College Composition 2 (I-1b)	<b>3 hours</b>
<b>TOTAL 3 HOURS</b>		

**Area I-1c**

COMM 135	Introduction to Public Speaking (I-1c)	<b>3 hours</b>
<b>TOTAL 3 HOURS</b>		

**Area I-2a**

Students with an ACT Math below 22 or SAT Math below 520 must take MATH 116 or a higher math in college.

**TOTAL 0–3 HOURS**

**Area I-2b**

Concept-based **1 hour**

BUAD 217	Business-Computer Concepts and Applications (I-2b, I-2c)	<b>3 hours*</b>
CPTC 100	Computer Concepts (I-2b)	<b>1 hour</b>
CPTR 110	Computational Thinking for the Sciences (I-2b, I-2c)	<b>3 hours*</b>
EDUC 319	Technology in Education (I-2b, I-2c)	<b>3 hours*</b>

*\* Covers both concepts and skills course*

**TOTAL 1 HOUR**

**Area I-2c**

Skills-based 2 hours

ARTG 115	Introduction to Computer Graphics (I-2c) <b>3 hours</b>
BUAD 217	Business-Computer Concepts and Applications (I-2b, I-2c) <b>3 hours</b>
CPTe 105	Introduction to Word Processing (I-2c) <b>1 hour</b>
CPTe 106	Introduction to Spreadsheets (I-2c) <b>1 hour</b>
CPTe 107	Introduction to Database (I-2c) <b>1 hour</b>
CPTe 109	Presentation Technology (I-2c) <b>1 hour</b>
CPTe 110	Introduction to Web Development (I-2c) <b>1 hour</b>
CPTR 110	Computational Thinking for the Sciences (I-2b, I-2c) <b>3 hours</b>
EDUC 319	Technology in Education (I-2b, I-2c) <b>3 hours</b>
MUED 250	Technology in Music Education (I-2c) <b>2 hours</b>
NRSg 240	Introduction to Healthcare Informatics (I-2c) <b>1 hour</b>
TECH 248	CADD Mechanical (I-2c) <b>3 hours</b>
<b>TOTAL 2 HOURS</b>	

**Area I-3a**

HIST 154	American History and Institutions I (I-3a) <b>3 hours</b>
or HIST 155	American History and Institutions II (I-3a) <b>3 hours</b>
or HIST 174	World Civilizations I (I-3a) <b>3 hours</b>
or HIST 175	World Civilizations II (I-3a) <b>3 hours</b>

**TOTAL 3 HOURS**

**Area S-1a**

NOND 101	Southern Connections (S-1) <b>1 hour</b>
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**TOTAL 1 HOUR**

**Area I-3c, S-3a, S-3b**

World Lang, Lit, Mus & Art Appr (2 different areas) **6 hours**

**TOTAL 6 HOURS**

**Area P-1a**

PEAC 125	Fitness for Collegiate Life (P-1a) <b>1 hour</b>
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**TOTAL 1 HOUR**

**Area P-1b**

ADAC, OLAC, RECR, or PEAC course **1 hour**

**TOTAL 1 HOUR**

**Electives**

Electives to make a total of 64 hours

**ALLIED HEALTH PRE-PHYSICAL THERAPY, A.S.**

**Adviser:** Randy Bishop

Physical therapists work to improve the mobility, relieve the pain, and prevent or limit the permanent disability of patients suffering from injuries or disease. Their patients include accident victims or handicapped individuals with such conditions as nerve injuries, amputations, low back pain, arthritis, and heart disease. Some physical therapists treat a wide variety of problems and others specialize in such areas as pediatrics, orthopedics, and sports physical therapy. The working environment of physical therapists varies from specially equipped facilities in hospitals or clinics to schools, private offices, and private homes.

## Andrews University Track

The program below meets Andrews University admission requirements, as well as Southern Adventist University's requirements for an A.S. degree. This program can be modified to meet the requirements of other schools. The Doctorate of Physical Therapy (DPT) program at Andrews is three years (nine semesters) in length. For a complete description of Southern's General Education requirements, refer to Academic Policies.

### Required Courses

ALHT 111	Introduction to the Health Professions	<b>1 hour</b>
BIOL 101	Anatomy and Physiology (I-4a)	<b>4 hours</b>
BIOL 102	Anatomy and Physiology (I-4a)	<b>4 hours</b>
CHEM 151	General Chemistry (I-4b)	<b>4 hours</b>
CHEM 152	General Chemistry (I-4b)	<b>4 hours</b>
HLED 173	Health for Life (P-2)	<b>2 hours*</b>
PHYS 211	General Physics I (I-4d)	<b>3 hours</b>
PHYS 212	General Physics II (I-4d)	<b>3 hours</b>
PHYS 213	General Physics Laboratory I	<b>1 hour</b>
PHYS 214	General Physics Laboratory II	<b>1 hour</b>
PSYC 128	Developmental Psychology (S-2)	<b>3 hours</b>
	Medical Terminology	<b>1 hour***</b>
BIOL 151	General Biology (I-4a)	<b>4 hours</b>
	or BIOL 152	General Biology (I-4a) <b>4 hours**</b>
MATH 215	Statistics (I-2a)	<b>3 hours</b>
	or NRSG 316	Applied Statistics for Health Professions <b>3 hours</b>
PSYC 101	Psychology of Personal and Social Adjustment (S-2)	<b>3 hours</b>
	or PSYC 122	General Psychology (S-2) <b>3 hours</b>
BIOL 416	Human Anatomy	<b>3 hours**</b>
	or PETH 315	Physiology of Exercise (W) <b>4 hours</b>
<b>TOTAL</b>		<b>44-45 HOURS</b>

\*May be substituted by NRNT 125

\*\*If applying to AU and LLU, the minimum Biology Electives include: BIOL 151 and PETH 315 or BIOL 416. The recommended Biology elective sequence is to substitute Exercise Physiology for General Biology I and to also take Human Anatomy.

\*\*\*Not offered at Southern. May be taken online (See Allied Health Adviser)

NOTE: C is the lowest acceptable grade

### General Education Courses

#### Area R-1

RELB 125	Life and Teachings of Jesus (R-1)	<b>3 hours</b>
	or RELT 177	Christian Spirituality (R-1) <b>3 hours</b>

**TOTAL 3 HOURS**

#### Area R-2a or R-3a

RELT 138	Adventist Heritage (R-2)	<b>3 hours</b>
	or RELT 225	Last-Day Events (R-2) <b>3 hours</b>
	or RELT 255	Christian Beliefs (R-2) <b>3 hours</b>
	or RELB course except RELB 125.	

**TOTAL 3 HOURS**

**Area R-4 UD**

RELB, RELT, or RELP upper division course **3 hours**  
**TOTAL 3 HOURS**

**Area I-1a**

ENGL 101 College Composition I (I-1a) **3 hours**  
**TOTAL 3 HOURS**

**Area I-1b**

ENGL 102 College Composition 2 (I-1b) **3 hours**  
**TOTAL 3 HOURS**

**Area I-1c**

COMM 135 Introduction to Public Speaking (I-1c) **3 hours**  
**TOTAL 3 HOURS**

**Area I-2b**

Concept-based 1 hour

BUAD 217 Business-Computer Concepts and Applications (I-2b, I-2c) **3 hours\***  
CPTE 100 Computer Concepts (I-2b) **1 hour**  
CPTR 110 Computational Thinking for the Sciences (I-2b, I-2c) **3 hours\***  
EDUC 319 Technology in Education (I-2b, I-2c) **3 hours\***

*\* Covers both Concept and Skill courses*

**TOTAL 1 HOUR**

**Area I-2c**

Skills-based 2 hours

ARTG 115 Introduction to Computer Graphics (I-2c) **3 hours**  
BUAD 217 Business-Computer Concepts and Applications (I-2b, I-2c) **3 hours**  
CPTE 105 Introduction to Word Processing (I-2c) **1 hour**  
CPTE 106 Introduction to Spreadsheets (I-2c) **1 hour**  
CPTE 107 Introduction to Database (I-2c) **1 hour**  
CPTE 109 Presentation Technology (I-2c) **1 hour**  
CPTE 110 Introduction to Web Development (I-2c) **1 hour**  
CPTR 110 Computational Thinking for the Sciences (I-2b, I-2c) **3 hours**  
EDUC 319 Technology in Education (I-2b, I-2c) **3 hours**  
MUED 250 Technology in Music Education (I-2c) **2 hours**  
NRSG 240 Introduction to Healthcare Informatics (I-2c) **1 hour**  
TECH 248 CADD Mechanical (I-2c) **3 hours**  
**TOTAL 2 HOURS**

**Area I-3a**

HIST course **3 hours**  
**TOTAL 3 HOURS**

**Area I-3b, I-5, S-2**

PLSC 254 American National and State Government (I-3b) **3 hours**  
or ECON 213 Survey of Economics (I-5) **3 hours**  
or ECON 224 Principles of Macroeconomics (I-5) **3 hours**  
or SOCI course 3 hours

**TOTAL 3 HOURS**

**Area S-1**

NOND 101 Southern Connections (S-1) **1 hour**  
**TOTAL 1 HOUR**

**Area S-3a or S-3b**

ELIT or Music and Art Appreciation course **3 hours**  
**TOTAL 3 HOURS**

**Area P-1a**

PEAC 125 Fitness for Collegiate Life (P-1a) **1 hour**  
**TOTAL 1 HOUR**

**Area P-1b**

ADAC, OLAC, RECR, or PEAC course **2 hours**  
**TOTAL 2 HOURS**

**Electives**

Electives to make a total of 92 hours (8 must be UD)

**Andrews University Admission and Degree Requirements:**

Andrews University requires a minimum cumulative GPA of 3.00 in science prerequisites and general education prerequisite courses. C is the lowest acceptable grade for science and cognate courses. Also required is a minimum of 80 hours of observation or work experience under the supervision of a licensed physical therapist, in at least two distinctly different patient care settings. Twenty hours minimum must be spent in an inpatient setting.

**Loma Linda University Track**

The program below meets Loma Linda University admission requirements, as well as Southern Adventist University's requirements for an A.S. degree. This program can be modified to meet the requirements of other schools. The program at Loma Linda is 3 years in length. For a complete description of Southern's General Education requirements, refer to Academic Policies.

**Required Courses**

ALHT 111 Introduction to the Health Professions **1 hour**  
 BIOL 101 Anatomy and Physiology (I-4a) **4 hours**  
 BIOL 102 Anatomy and Physiology (I-4a) **4 hours**  
 CHEM 151 General Chemistry (I-4b) **4 hours**  
 CHEM 152 General Chemistry (I-4b) **4 hours**  
 HLED 173 Health for Life (P-2) **2 hours\***  
 MATH 215 Statistics (I-2a) **3 hours**  
 PHYS 211 General Physics I (I-4d) **3 hours**  
 PHYS 212 General Physics II (I-4d) **3 hours**  
 PHYS 213 General Physics Laboratory I **1 hour**  
 PHYS 214 General Physics Laboratory II **1 hour**  
 PSYC 122 General Psychology (S-2) **3 hours**  
 PSYC 128 Developmental Psychology (S-2) **3 hours**  
 BIOL BIOL LD **3-4 hours**  
 PSYC/SOCI Elective **3 hours**  
 Medical Terminology **1 hour\*\***

PETH 315 Physiology of Exercise (W) **4 hours\*\***  
or BIOL UD Choose UD Biology **3-4 hours**

**TOTAL 46-48 HOURS**

*\*May be substituted by NRNT 125.*

*\*\*The minimum Biology Electives include: BIOL 151 and PETH 315 or BIOL 416. The recommended Biology elective sequence is to substitute Exercise Physiology for General Biology I and to also take Human Anatomy.*

*\*\*\*Not offered at Southern. May be taken online. (See Allied Health Adviser)*

*NOTE: C is the lowest acceptable grade*

## **General Education Courses**

### **Area R-1**

RELB 125 Life and Teachings of Jesus (R-1) **3 hours**  
or RELT 177 Christian Spirituality (R-1) **3 hours**

**TOTAL 3 HOURS**

### **Area R-2a or R-3a**

RELT 138 Adventist Heritage (R-2) **3 hours**  
or RELT 225 Last-Day Events (R-2) **3 hours**  
or RELT 255 Christian Beliefs (R-2) **3 hours**  
or RELB course except RELB 125.

**TOTAL 3 HOURS**

### **Area R- 4 UD**

RELB, RELT, or RELP upper division course **3 hours**

**TOTAL 3 HOURS**

### **Area I-1a**

ENGL 101 College Composition I (I-1a) **3 hours**

**TOTAL 3 HOURS**

### **Area I-1b**

ENGL 102 College Composition 2 (I-1b) **3 hours**

**TOTAL 3 HOURS**

### **Area I-1c**

COMM 135 Introduction to Public Speaking (I-1c) **3 hours**

**TOTAL 3 HOURS**

### **Area I-2b**

Concept-based 1 hour

BUAD 217 Business-Computer Concepts and Applications (I-2b, I-2c) **3 hours\***

CPTC 100 Computer Concepts (I-2b) **1 hour**

CPTR 110 Computational Thinking for the Sciences (I-2b, I-2c) **3 hours\***

EDUC 319 Technology in Education (I-2b, I-2c) **3 hours\***

*\* Covers Concepts and Skills course*

**TOTAL 1 HOUR**

### **Area I-2c**

Skills-based 2 hours

ARTG 319 Introduction to Computer Graphics (I-2c) **3 hours**



BUAD 217	Business-Computer Concepts and Applications (I-2b, I-2c) <b>3 hours</b>
CPTe 105	Introduction to Word Processing (I-2c) <b>1 hour</b>
CPTe 106	Introduction to Spreadsheets (I-2c) <b>1 hour</b>
CPTe 107	Introduction to Database (I-2c) <b>1 hour</b>
CPTe 109	Presentation Technology (I-2c) <b>1 hour</b>
CPTe 110	Introduction to Web Development (I-2c) <b>1 hour</b>
CPTR 110	Computational Thinking for the Sciences (I-2b, I-2c) <b>3 hours</b>
EDUC 319	Technology in Education (I-2b, I-2c) <b>3 hours</b>
MUED 250	Technology in Music Education (I-2c) <b>2 hours</b>
NRSG 240	Introduction to Healthcare Informatics (I-2c) <b>1 hour</b>
TECH 248	CADD Mechanical (I-2c) <b>3 hours</b>
<b>TOTAL 2 HOURS</b>	

**Area I-3a**

HIST 154	American History and Institutions I (I-3a) <b>3 hours</b>
or HIST 155	American History and Institutions II (I-3a) <b>3 hours</b>
or HIST 174	World Civilizations I (I-3a) <b>3 hours</b>
or HIST 175	World Civilizations II (I-3a) <b>3 hours</b>
<b>TOTAL 3 HOURS</b>	

**Area I-3c, S-3a, S-3b**

World Languages, literature, or Music and Art Appreciation courses  
 One course from two different areas  
 One of the two courses must be upper division

**TOTAL 6 HOURS****Area S-1a**

NOND 101	Southern Connections (S-1) <b>1 hour</b>
<b>TOTAL 1 HOUR</b>	

**Area S-2 UD**

UD PSYC or SOCI elective	<b>3 hours</b>
<b>TOTAL 3 HOURS</b>	

**Area P-1a**

PEAC 125	Fitness for Collegiate Life (P-1a) <b>1 hour</b>
<b>TOTAL 1 HOUR</b>	

**Area P-1b**

ADAC, OLAC, RECR or PEAC course	<b>2 hours</b>
<b>TOTAL 2 HOURS</b>	

**Electives**

Electives to make a total of 92 hours (3 must be UD if applying to Andrews)

**Loma Linda University Admission and Degree Requirements:**

For admission into the Physical Therapy Program, Loma Linda University requires a 3.20 GPA in science prerequisites and total credits. C is the lowest acceptable grade for any transferable course. Also required is a minimum of 80 hours work experience (volunteer or employee) in a physical therapy department, 20 of which must be in an inpatient setting and 20 hours in the outpatient setting.

## ALLIED HEALTH PRE-SPEECH LANGUAGE PATHOLOGY & AUDIOLOGY, A.S.

**Adviser:** Randy Bishop

Speech-language pathologists identify, assess, and treat persons with speech and language disorders while audiologists assess and treat hearing impaired individuals. Because both occupations are concerned with communication, individuals competent in one area must be familiar with the other. The duties of speech-language pathologists and audiologists vary. Most, however, provide direct clinical services to individuals with communication disorders. In speech, language, and hearing clinics they may independently develop and implement a treatment program. In private medical centers and other facilities, they may be part of a team that develops and executes a treatment plan. In schools they may help administrators develop individual or group programs, counsel parents on prevention of hearing disorders, and assist professors with classroom activities.

The program below meets admission requirements for Andrews University and Loma Linda University, as well as Southern Adventist University's requirements for an A.S. degree. This program can be modified to meet the requirements of other schools. For a complete description of Southern's General Education requirements, refer to Academic Policies.

### Required Courses

ALHT 111	Introduction to the Health Professions	<b>1 hour</b>
ALHT 265	Topics in Allied Health	<b>2 hours</b>
BIOL 101	Anatomy and Physiology (I-4a)	<b>4 hours</b>
BIOL 102	Anatomy and Physiology (I-4a)	<b>4 hours</b>
HLED 173	Health for Life (P-2)	<b>2 hours*</b>
MATH 215	Statistics (I-2a)	<b>3 hours</b>
PSYC 122	General Psychology (S-2)	<b>3 hours</b>
PSYC 128	Developmental Psychology (S-2)	<b>3 hours</b>
SOCI/PSYC/PLSC	Select from SOCI, PSYC, or PLSC Elective	<b>3 hours</b>
Area I-3c	World Languages, S-3a Literature, and S-3b Music and Art Appreciation (from 2 different areas)	<b>6 hours</b>
PHYS 127	Exploring Physics I (I-4d)	<b>3 hours**</b>
or PHYS 128	Exploring Physics II (I-4d)	<b>3 hours</b>
<b>TOTAL</b>		<b>34 HOURS</b>

*\*May be substituted by NRNT 125 Nutrition (P-2)*

*\*\*If applying to LLU, a Chemistry course can be substituted for Exploring Physics*

*NOTE: C is the lowest acceptable grade for AU and LLU*

### General Education Courses

#### Area R-1

RELB 125	Life and Teachings of Jesus (R-1)	<b>3 hours</b>
or RELT 177	Christian Spirituality (R-1)	<b>3 hours</b>

**TOTAL 3 HOURS**

#### Area R-2 or R-3

RELT 138, RELT 225, RELT 255 or any RELB course except RELB 125 **3 hours**

**TOTAL 3 HOURS**

**Area I-1a**

ENGL 101 College Composition I (I-1a) **3 hours**  
**TOTAL 3 HOURS**

**Area I-1b**

ENGL 102 College Composition 2 (I-1b) **3 hours**  
**TOTAL 3 HOURS**

**Area I-1c**

COMM 135 Introduction to Public Speaking (I-1c) **3 hours**  
**TOTAL 3 HOURS**

**Area I-2a**

MATH (if needed) or elective **3 hours**

*NOTE: LLU requires two years of high school math including Algebra I and II or a minimum of Intermediate Algebra in college without credit or College Algebra or higher for credit. Statistics does not meet LLU's math requirement.*

**TOTAL 3 HOURS**

**Area I-2b**

Concept-based 1 hour

BUAD 217 Business-Computer Concepts and Applications (I-2b, I-2c) **3 hours\***  
 CPTE 100 Computer Concepts (I-2b) **1 hour**  
 CPTR 110 Computational Thinking for the Sciences (I-2b, I-2c) **3 hours\***  
 EDUC 319 Technology in Education (I-2b, I-2c) **3 hours\***

*\* Covers Concepts and Skills course*

**TOTAL 1 HOUR**

**Area I-2c**

Skills-based 2 hours

ARTG 115 Introduction to Computer Graphics (I-2c) **3 hours**  
 BUAD 217 Business-Computer Concepts and Applications (I-2b, I-2c) **3 hours**  
 CPTE 105 Introduction to Word Processing (I-2c) **1 hour**  
 CPTE 106 Introduction to Spreadsheets (I-2c) **1 hour**  
 CPTE 107 Introduction to Database (I-2c) **1 hour**  
 CPTE 109 Presentation Technology (I-2c) **1 hour**  
 CPTE 110 Introduction to Web Development (I-2c) **1 hour**  
 CPTR 110 Computational Thinking for the Sciences (I-2b, I-2c) **3 hours**  
 EDUC 319 Technology in Education (I-2b, I-2c) **3 hours**  
 MUED 250 Technology in Music Education (I-2c) **2 hours**  
 NRSG 240 Introduction to Healthcare Informatics (I-2c) **1 hour**  
 TECH 248 CADD Mechanical (I-2c) **3 hours**

**TOTAL 2 HOURS**

**Area I-3a**

HIST 154 American History and Institutions I (I-3a) **3 hours**  
 or HIST 155 American History and Institutions II (I-3a) **3 hours**  
 or HIST 174 World Civilizations I (I-3a) **3 hours**  
 or HIST 175 World Civilizations II (I-3a) **3 hours**

**TOTAL 3 HOURS**

### Area S-1

NOND 101 Southern Connections (S-1) **1 hour**

**TOTAL 1 HOUR**

### Area P-1a

PEAC 125 Fitness for Collegiate Life (P-1a) **1 hour**

**TOTAL 1 HOUR**

### Area P-1b

ADAC, OLAC, PEAC, or RECR course **1 hour**

**TOTAL 1 HOUR**

### Electives

Electives to make a total of 64 hours

## MEDICAL LABORATORY SCIENCE, B.S.

### Required Core Courses

ALHT 225 Introduction to Clinical Laboratory Science **2 hours**

BIOL 151 General Biology (I-4a) **4 hours**

BIOL 152 General Biology (I-4a) **4 hours**

BIOL 311 Genetics **4 hours**

BIOL 305 Proposal Writing **1 hour**

BIOL 340 Immunology **3 hours**

BIOL 412 Cell and Molecular Biology **4 hours**

CHEM 151 General Chemistry (I-4b) **4 hours**

CHEM 152 General Chemistry (I-4b) **4 hours**

CHEM 311 Organic Chemistry **4 hours**

CHEM 312 Organic Chemistry **4 hours**

MATH 215 Statistics (I-2a) **3 hours**

UD Biology Elective\* **3 hours**

**TOTAL 44 HOURS**

*\*Biology Elective-Recommended BIOL 315 or BIOL 424*

*NOTE: Grades of C- or better are required in the major and cognate courses*

### General Education Courses

#### Area R-1

RELB 125 Life and Teachings of Jesus (R-1) **3 hours**

or RELT 177 Christian Spirituality (R-1) **3 hours**

**TOTAL 3 HOURS**

#### Area R-2a

RELT 138 Adventist Heritage (R-2) **3 hours**

or RELT 225 Last-Day Events (R-2) **3 hours**

or RELT 255 Christian Beliefs (R-2) **3 hours**

**TOTAL 3 HOURS**

#### Area R-3 or R-4 UD

RELB or RELT upper division course or RELP 340 RELP 361 RELP 405 or RELP 467

**TOTAL 3 HOURS**

**Area I-1a**

ENGL 101 College Composition I (I-1a) **3 hours**  
**TOTAL 3 HOURS**

**Area I-1b**

ENGL 102 College Composition 2 (I-1b) **3 hours**  
**TOTAL 3 HOURS**

**Area I-1c**

COMM 135 Introduction to Public Speaking (I-1c) **3 hours**  
**TOTAL 3 HOURS**

**Area I-2a**

MATH 120 Precalculus Algebra (I-2a) **3 hours\***  
**TOTAL 3 HOURS**

*\*Waived if equivalent math was taken in high school with minimum grade of B.*

**Area I-2b**

Concept-based 1 hour

BUAD 217 Business-Computer Concepts and Applications (I-2b, I-2c) **3 hours \***  
 CPTe 100 Computer Concepts (I-2b) **1 hour**  
 CPTR 110 Computational Thinking for the Sciences (I-2b, I-2c) **3 hours\***  
 EDUC 319 Technology in Education (I-2b, I-2c) **3 hours\***  
**TOTAL 1 HOUR**

*\* Covers both Concept and Skills courses*

**Area I-2c**

Skills-based 2 hours

ARTG 115 Introduction to Computer Graphics (I-2c) **3 hours**  
 BUAD 217 Business-Computer Concepts and Applications (I-2b, I-2c) **3 hours**  
 CPTe 105 Introduction to Word Processing (I-2c) **1 hour**  
 CPTe 106 Introduction to Spreadsheets (I-2c) **1 hour**  
 CPTe 107 Introduction to Database (I-2c) **1 hour**  
 CPTe 109 Presentation Technology (I-2c) **1 hour**  
 CPTe 110 Introduction to Web Development (I-2c) **1 hour**  
 CPTR 110 Computational Thinking for the Sciences (I-2b, I-2c) **3 hours**  
 EDUC 319 Technology in Education (I-2b, I-2c) **3 hours**  
 MUED 250 Technology in Music Education (I-2c) 2 hours  
 NRSg 240 Introduction to Healthcare Informatics (I-2c) **1 hour**  
 TECH 248 CADD Mechanical (I-2c) **3 hours**  
**TOTAL 2 HOURS**

**Area I-3a**

HIST course or HMNT 210 **3 hours**  
**TOTAL 3 HOURS**

**Area I-3c or S-3a or S-3b**

World Languages or Literature or Music & Art Appreciation course **3 hours**  
**TOTAL 3 HOURS**

### Area S-1

NOND 101 Southern Connections (S-1) **1 hour**

**TOTAL 1 HOUR**

### Area S-2 or P-2

EDUC 220 Growth Years (S-2) **3 hours**

PSYC 101 Psychology of Personal and Social Adjustment (S-2) **3 hours**

PSYC 122 General Psychology (S-2) **3 hours**

PSYC 128 Developmental Psychology (S-2) **3 hours**

PSYC 224 Social Psychology (S-2) **3 hours**

PSYC 233 Human Sexuality (S-2) **3 hours**

PSYC 349 Aging and Society (S-2) (W) (SERV-2) **3 hours**

SOCI 125 Introduction to Sociology (S-2) **3 hours**

SOCI 150 Cultural Anthropology (I-3b) (S-2) **3 hours**

SOCW 150 Cultural Anthropology (I-3b) (S-2) **3 hours**

SOCW 201 Parenting (S-2) (SERV-2) **3 hours**

SOCW 233 Human Sexuality (S-2) **3 hours**

SOCW 365 Family Relations (S-2) **3 hours**

HLED 173 Health for Life (P-2) **2 hours**

HLNT 135 Nutrition for Life--Enhanced (P-2) **3 hours**

NRNT 125 Nutrition (P-2) **3 hours**

**TOTAL 3 HOURS**

### Area P-1a

PEAC 125 Fitness for Collegiate Life (P-1a) **1 hour**

**TOTAL 1 HOUR**

### Area P-1b

ADAC, OLAC, RECR, or PEAC course **2 hours**

**TOTAL 2 HOURS**

### Electives

Electives to make a total of 94 hours

### Recommended:

CHEM 315 Quantitative Analysis **4 hours**

CHEM 321 Instrumental Analysis **4 hours**

CHEM 361 Biochemistry I **4 hours**

MGNT 334 Principles of Management **3 hours**

PHYS 211 General Physics I (I-4d) **3 hours**

PHYS 212 General Physics II (I-4d) **3 hours**

PHYS 213 General Physics Laboratory I **1 hour**

PHYS 214 General Physics Laboratory II **1 hour**

### Hospital Clinical (Senior) Year

One calendar year spent in Andrews University's clinical program. Classes will include:

Hematology and Hemostasis, Clinical Immunology, Clinical Bacteriology, Clinical Mycology and Parasitology, Immunohematology, Transfusion Medicine, Clinical Chemistry, Body Fluids, Laboratory Management, Specimen Procurement and Processing, Research, and a twenty-week clinical practica.

# Biology

**Chair:** Keith Snyder

**Faculty:** Joyce L. Azevedo, Randy Bishop, Aaron Corbit, L. Ann Foster, Lucinda Hill, David Nelsen, Rick Norskov, Ben Thornton, Tim Trott

**Research Professor:** Lee Spencer

**Adjunct Faculty:** Roger Hall

## **Program Coordinators:**

Biology, B.A. Rick Norskov

Biology, Research Emphasis, B.S. Ben Thornton

Biology, Biomedical Emphasis, B.S. L. Ann Foster

Biology, Teacher Certification, B.A. Aaron Corbit

Medical Laboratory Science, Robert Young

The study of Biology constitutes one of the most exciting and important fields of scientific investigation, since it provides a better understanding of ourselves and the living things around us. Even the casual observer of Biology who pauses long enough to take a course may derive a lifetime of pleasure and fulfillment from a hobby such as bird watching, shell collecting, or wild flower photography.

## **Mission Statement**

The Biology Department exists as an integral part of Southern Adventist University with its mission to provide a quality Seventh-day Adventist Christian undergraduate education, emphasizing the balanced development of the spiritual, intellectual, physical, and social dimensions of men and women. Within the framework of a Christian understanding of the origin and workings of biological systems, the department seeks to provide opportunities for its academic and local communities to understand the value, process and limitations of scientific inquiry as well as to develop an awareness and understanding of the biological world and our responsibility to it. Its curricula are designed to provide students with high quality preparation for careers in the biological and biomedical professions.

## **The Biology Major**

A major in Biology is an excellent starting point for numerous careers which are both rewarding and challenging. With a degree in Biology, one may pursue graduate study leading to research in the basic sciences (anatomy, physiology, ecology, microbiology, cytology, etc.), teaching at the college or graduate level, or employment in industry or government. A biology degree is also the degree of choice in preparation for high-school teaching, medicine, dentistry, optometry, careers in wildlife, forestry or zoo management, health education, public health, biostatistics, epidemiology, and environmental health, to name a few.

The Biology Department makes available a number of experiences, both curricular and extracurricular, to enrich its students' academic programs. The department offers courses which include field experiences in Indonesia, Canada, Smoky Mountains, and the Okefenokee National Wildlife Refuge. The

Tennessee Aquarium in nearby Chattanooga provides additional learning resources. The department is also affiliated with Walla Walla University's Rosario Beach Biological Field Station (see Student Life and Services).

Extracurricular opportunities include membership in the Beta Beta Beta national biological honor society, a yearly lecture series on natural history and research topics, as well as premedical and pre dental preceptorship programs (see Medicine/Dentistry).

## Assessment

In order to help evaluate the department's teaching effectiveness and the academic achievements of its graduates, all seniors except those obtaining teacher certification are required to take the ETS Major Field Achievement Test in Biology. The results of these exams are used by the department staff to evaluate class offerings as well as program requirements.

## Rosario Beach Marine Biological Field Station

The Rosario Beach Marine Station is a teaching and research facility operated by Walla Walla University in affiliation with Southern Adventist University and other Adventist colleges. Located seven miles south of Anacortes, Washington, the station occupies 40 acres of beach and timberland. In addition to some of the biology courses listed in this *Catalog*, classes taught for five quarter credits through WWU are equivalent to 3.3 semester hours. For current class offerings, see <http://rosario.wallawalla.edu>.

## BIOLOGY, BIOMEDICAL EMPHASIS, B.S.

### Required Courses

BIOL 151	General Biology (I-4a) <b>4 hours</b>
BIOL 152	General Biology (I-4a) <b>4 hours</b>
BIOL 311	Genetics <b>4 hours</b>
BIOL 412	Cell and Molecular Biology <b>4 hours</b>
BIOL 424	Issues of Natural Science and Religion (W) <b>3 hours</b>
BIOL 490	Senior Capstone <b>1 hour</b>
Biology Elective Areas <b>18 hours*</b>	
<b>TOTAL 38 HOURS</b>	

*\*Two courses minimum from Basic Zoology and Clinical Sciences. Select one course from either Botany/Ecology or Zoology Field plus one course from any of the four elective areas.*

*\*\*Waived if equivalent math was taken in high school with minimum grade of B.*

### Required Cognates

CHEM 151	General Chemistry (I-4b) <b>4 hours</b>
CHEM 152	General Chemistry (I-4b) <b>4 hours</b>
CHEM 311	Organic Chemistry <b>4 hours</b>
CHEM 312	Organic Chemistry <b>4 hours</b>
CHEM 361	Biochemistry I <b>4 hours</b>
MATH 120	Precalculus Algebra (I-2a) <b>3 hours**</b>
MATH 121	Precalculus Trigonometry (I-2a) <b>2 hours**</b>
PHYS 211	General Physics I (I-4d) <b>3 hours</b>
PHYS 212	General Physics II (I-4d) <b>3 hours</b>



PHYS 213	General Physics Laboratory I	<b>1 hour</b>
PHYS 214	General Physics Laboratory II	1 hour
MATH 215	Statistics (I-2a)	<b>3 hours</b>
or MATH 191	Calculus I	<b>4 hours</b>

### Highly Recommended

ACCT 103	College Accounting (I-5)	<b>3 hours</b>
MGNT 334	Principles of Management	<b>3 hours</b>
PSYC 122	General Psychology (S-2)	<b>3 hours</b>
SOCI 125	Introduction to Sociology (S-2)	<b>3 hours</b>
BIOL 297	Research in Biology	<b>1–2 hours</b>
or BIOL 476	Research in Biology I (W)	<b>1–2 hours</b>

## BIOLOGY, RESEARCH EMPHASIS, B.S.

### Required Courses

BIOL 151	General Biology (I-4a)	<b>4 hours</b>
BIOL 152	General Biology (I-4a)	<b>4 hours</b>
BIOL 282	Introduction to Biological Research	<b>3 hours</b>
BIOL 297	Research in Biology	<b>1–2 hours</b> (2 hours required)
BIOL 305	Proposal Writing	<b>1 hour</b>
BIOL 311	Genetics	<b>4 hours</b>
BIOL 412	Cell and Molecular Biology	<b>4 hours</b>
BIOL 424	Issues of Natural Science and Religion (W)	<b>3 hours</b>
BIOL 490	Senior Capstone	<b>1 hour</b>
BIOL 496	Senior Thesis (W)	<b>1 hour</b>
Biology Elective Areas <b>15 hours*</b>		
BIOL 317	Ecology (SERV-2)	<b>3 hours</b>
or BIOL 321	Field Ecology	<b>3 hours</b>

### TOTAL 45 HOURS

*\*One course minimum from each of the four biology elective areas plus one course from any of the four elective.*

*\*\*Waived if equivalent math was taken in high school with minimum grade of B.*

### Required Cognates

CHEM 151	General Chemistry (I-4b)	<b>4 hours</b>
CHEM 152	General Chemistry (I-4b)	<b>4 hours</b>
CHEM 311	Organic Chemistry	<b>4 hours</b>
CHEM 312	Organic Chemistry	<b>4 hours</b>
MATH 120	Precalculus Algebra (I-2a)	<b>3 hours**</b>
MATH 121	Precalculus Trigonometry (I-2a)	<b>2 hours**</b>
PHYS 211	General Physics I (I-4d)	<b>3 hours</b>
PHYS 212	General Physics II (I-4d)	<b>3 hours</b>
PHYS 213	General Physics Laboratory I	<b>1 hour</b>
PHYS 214	General Physics Laboratory II	<b>1 hour</b>

### Highly Recommended

BIOL 476	Research in Biology I (W)	<b>1–2 hours</b>
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**BIOLOGY, B.A.**

Chemistry Minor Recommended

**Required Courses**

BIOL 151	General Biology (I-4a) <b>4 hours***</b>
BIOL 152	General Biology (I-4a) <b>4 hours***</b>
BIOL 282	Introduction to Biological Research <b>3 hours</b>
BIOL 311	Genetics <b>4 hours</b>
BIOL 412	Cell and Molecular Biology <b>4 hours</b>
BIOL 424	Issues of Natural Science and Religion (W) <b>3 hours</b>
BIOL 490	Senior Capstone <b>1 hour</b>
Biology Elective Areas <b>9 hours*</b>	
BIOL 317	Ecology (SERV-2) <b>3 hours</b>
or BIOL 321	Field Ecology <b>3 hours</b>

**TOTAL 35 HOURS**

*\*One course minimum from three of the four biology elective areas.*

*\*\*Waived if equivalent math was taken in high school with minimum grade of B.*

*\*\*\*Students may be exempt from taking BIOL 152 if they have an Advanced Placement grade of "5" and a grade of "B" or better in BIOL 151 .*

**Required Cognates**

CHEM 151	General Chemistry (I-4b) <b>4 hours</b>
CHEM 152	General Chemistry (I-4b) <b>4 hours</b>
CHEM 311	Organic Chemistry <b>4 hours</b>
CHEM 312	Organic Chemistry <b>4 hours</b>
MATH 120	Precalculus Algebra (I-2a) <b>3 hours**</b>

**Highly Recommended**

MATH 121	Precalculus Trigonometry (I-2a) <b>2 hours**</b>
PHYS 211	General Physics I (I-4d) <b>3 hours</b>
PHYS 212	General Physics II (I-4d) <b>3 hours</b>
PHYS 213	General Physics Laboratory I <b>1 hour</b>
PHYS 214	General Physics Laboratory II <b>1 hour</b>

**BIOLOGY, TEACHER CERTIFICATION, B.A.**

Secondary certification in Biology requires a baccalaureate degree consisting of 34 credits of specified biology courses, specified cognates, and completion of professional education courses (listed here) for licensure.

The student must apply for Initial Admission to the Teacher Education Program (usually by the end of the sophomore year) after completing all requirements as outlined under ADMISSION PROCEDURES in the School of Education and Psychology section of the *Catalog*. Initial admission is required before the student can enroll in upper division education courses.

The student must also complete an application and all other requirements for Admission to Student Teaching. Prior to the professional semester, the student must take and pass the PRAXIS II licensure exam—both the appropriate section of the Principles of Learning and Teaching, and the particular specialty test(s) for the licensure area(s).

**Required Courses**

BIOL 151	General Biology (I-4a) <b>4 hours</b>
BIOL 152	General Biology (I-4a) <b>4 hours</b>
BIOL 282	Introduction to Biological Research <b>3 hours</b>
BIOL 311	Genetics <b>4 hours</b>
BIOL 412	Cell and Molecular Biology <b>4 hours</b>
BIOL 424	Issues of Natural Science and Religion (W) <b>3 hours</b>
Biology Elective Areas <b>9 hours*</b>	
BIOL 317	Ecology (SERV-2) <b>3 hours</b>
or BIOL 321	Field Ecology <b>3 hours</b>
<b>TOTAL 34 HOURS</b>	

*\*Choose one course from three of the four elective areas*

**Required Cognates**

CHEM 151	General Chemistry (I-4b) <b>4 hours</b>
CHEM 152	General Chemistry (I-4b) <b>4 hours</b>
MATH 120	Precalculus Algebra (I-2a) <b>3 hours</b>
PHYS 127	Exploring Physics I (I-4d) <b>3 hours</b>
PHYS 128	Exploring Physics II (I-4d) <b>3 hours</b>

**Highly Recommended**

CHEM 311	Organic Chemistry <b>4 hours</b>
CHEM 312	Organic Chemistry <b>4 hours</b>

**Professional Education Courses**

EDUC 138	Introduction to and Foundations of Secondary Education <b>3 hours</b>
EDUC 319	Technology in Education (I-2b, I-2c) <b>3 hours</b>
EDUC 338	Foundations of Inclusive Education (SERV-2) <b>3 hours</b>
EDUC 341	General Methods and Assessment <b>3 hours</b>
EDUC 342	Curriculum and Content Methods <b>2 hours</b>
EDUC 343	Learning Theories and Classroom Management <b>3 hours</b>
EDUC 419	Philosophy and Leadership in Christian Education (W) (SERV-2) <b>3 hours</b>
EDUC 434	Reading and Writing in the Content Areas <b>2 hours</b>
EDUC 464	Teaching Seminar <b>2 hours</b>
EDUC 472	Enhanced Student Teaching 7-12 (SERV-2) <b>10 hours</b>
EDUC 220	Growth Years (S-2) <b>3 hours</b>
or PSYC 128	Developmental Psychology (S-2) <b>3 hours</b>
<b>TOTAL 37 HOURS</b>	

**BIOLOGY ELECTIVE AREAS****Basic Zoology**

BIOL 313	Developmental Biology <b>3 hours</b>
BIOL 387	Animal Behavior <b>3 hours</b>
BIOL 416	Human Anatomy <b>3 hours</b>
BIOL 417	Animal Histology <b>3 hours</b>
BIOL 418	Animal Physiology <b>3 hours</b>

**Botany & Ecology**

BIOL 252	Tropical Biology (I-4a) <b>3 hours</b>
BIOL 317	Ecology (SERV-2) <b>3 hours</b>
BIOL 321	Field Ecology <b>3 hours</b>

- BIOL 409 Smoky Mountain Flora **3 hours**
- BIOL 458 Ecotoxicology **3 hours**

**Clinical Sciences**

- BIOL 315 Human Parasitology (W) **3 hours**
- BIOL 340 Immunology **3 hours**

**Zoology Field**

- BIOL 312 Vertebrate Natural History **3 hours**
- BIOL 314 Ornithology (I-4a) **3 hours**
- BIOL 320 Entomology **3 hours**
- BIOL 411 Mammalogy **3 hours**

**BIOLOGY MINOR**

**Required Courses**

- BIOL 151 General Biology (I-4a) **4 hours**
- BIOL 152 General Biology (I-4a) **4 hours**
- Biology Electives **10 hours\***

**TOTAL 18 HOURS**

*\*A minimum of six hours must be upper division.*

# School of Business and Management

Accredited through the International Assembly for Collegiate Business Education (IACBE)

**Dean:** Mark Hyder

**Faculty:** Michael Cafferky, Richard Erickson, H. Robert Gadd, Lisa S. Goolsby, Julie Hyde, Mark Hyder, Robert Montague, Braam Oberholster, Cliff Olson, Verlyne Starr, Dennis Steele, Leon Weeks, Jon Wentworth

**Adjunct Faculty:** Elisa Adeogun, Scott Edens, Doug Frood, Jennie McClaren Hobbs, Greg Mitchell, John Stover, Mark Waldrop, Berton Whitaker, Robert Young

## **Program Coordinators:**

Business Administration, Richard Erickson

Long Term Care Administration, Verlyne Starr

Nonprofit Management, Robert Montague

Computer Information Systems, (SBM Dean) and Rick Halterman

Financial Management, Jon Wentworth

Management, Braam Oberholster

Marketing, Cliff Olson

Accounting A.S., Jon Wentworth

Business Administration A.S., Richard Erickson

Business Administration and Public Relations, (SBM Dean) and Greg Rumsey

Business Administration and Auto Service, (SBM Dean) and Dale Walters

**Institute for Ethical Leadership:** Stephanie Sheehan

**Enactus:** Stephanie Sheehan

**Business Advisory Board:** Joseph Decosimo, Franklin Farrow, Russell Frib-erg, Mark Guild, Bill McGinnis, Chris McKee

## **Advisory Council:**

*Long Term Care Administration:* Scott Edens, Tish Erdmann, Jo Edwards, Michelle Givens, Jennie McClaren Hobbs, Shari McQuistan, David Rodman, Mark Waldrop, Robert Young

## **Mission Statement**

The mission of the School of Business and Management lies within the mission of Southern Adventist University. The mission of the School of Business and Management is to develop Christ-centered business leaders who integrate knowledge and application with high moral values.

## **Objectives**

The courses and programs offered by the School of Business and Management are designed to prepare students for business-related careers in the for-profit and not-for-profit sectors and/or for further graduate education.

The objectives of the school are:

1. To give the student a broad background of knowledge of the free enterprise system within a framework of moral and ethical guidelines.
2. To assist the student in developing a sound Christian philosophy toward

our current economic environment and the ever-changing business world of the future.

3. To provide the student with a quality academic program with basic business skills required for initial job placement.
4. To encourage Seventh-day Adventist students to serve as workers and in positions of business leadership with organizations sponsored by this denomination when opportunities are available.
5. To foster within all students a commitment to excellence and a concept of service in the workplace and to community.
6. To provide the necessary academic background for entrance into graduate degree programs in business.

## **Admission Requirements for School of Business and Management**

Those pursuing a degree program in the School of Business and Management must complete a Student Statement of Intent upon enrollment their freshman/transfer year. This form is available from your adviser. For admission, the following steps must be completed:

- Incoming freshmen, change of majors, and transfer students with less than 30 semester hours in business must complete steps 1, 2, and 3 listed below.
  - Students transferring with more than 30 semester hours in business who have completed steps 1 and 2 must apply for admission into the SBM immediately upon completion of 9 semester hours of business courses in residence at Southern. The 30 semester business hour maximum is waived.
1. General education and cognate courses  
These three courses must be completed with a minimum grade of C.
    - BUAD 217 Business-Computer Concepts and Applications (I-2b, I-2c)
    - ENGL 102 College Composition 2 (I-1b)
    - MATH 120 Precalculus Algebra (I-2a)
  2. Business core and major courses  
Any four of these six courses must be completed with a four-course GPA of 2.50 and a minimum grade of C in all business courses.
    - ACCT 221 Principles of Accounting I (I-5)
    - ACCT 222 Principles of Accounting II
    - ACCT 311 Intermediate Accounting I
    - BMKT 326 Principles of Marketing
    - ECON 224 Principles of Macroeconomics (I-5)
    - MGNT 334 Principles of Management
  3. Application for admission to the School of Business and Management  
Application for admission must be made on or before completing 30 semester hours of business courses. Students must apply for admission to the SBM after completing steps 1 and 2. Business courses taken in excess of 30 semester hours before acceptance in the SBM may not count toward business degree graduation requirements.

Applications are available at the office of the School of Business and Management.

## Accreditation

Southern Adventist University has received specialized accreditation for its business and business-related programs through the International Assembly for Collegiate Business Education (IACBE), Olathe, Kansas. The following degree programs are accredited by the IACBE:

- Bachelor of Business Administration degree
- Bachelor of Science degrees in Business Administration, Corporate Community Wellness Management, Long Term Care Administration, and Sports Studies
- Master of Business Administration
- Master of Financial Management
- Master of Science in Administration

## Degree Requirements

1. A minimum cumulative GPA of 2.25 in the major.
2. Courses with grades lower than “C” (2.00) in the major studies and cognates must be repeated.
3. Transfer credits at the same level (lower division/upper division) as Southern Catalog listings will be accepted from an accredited college/university. (Exceptions can be made on a case by case basis.)
4. The following residency requirements and courses **MUST BE TAKEN** in residence at Southern Adventist University in various School of Business and Management majors:

### B.B.A./B.S. Core Residency Requirements (all majors)

BUAD 358	Ethical, Social, and Legal Environment of Business (W)	<b>3 hours</b>
MGNT 464	Business Strategies (W)	<b>3 hours</b> (Must be taken in senior year)
BUAD 288	Seminar in Business Administration	<b>1 hour</b>
	or BUAD 488 Seminar in Business Administration	<b>1 hour</b>
<b>TOTAL 7 HOURS</b>		

### Computer Information Systems Major Residency Requirements

Nine hours in major **9 hours**

### Financial Management Major Residency Requirements

#### ACCOUNTING CONCENTRATION

Nine upper division hours in concentration (in consultation with adviser) **9 hours**  
**TOTAL 9 HOURS**

#### FINANCE CONCENTRATION

Nine upper division hours in concentration (in consultation with adviser) **9 hours**  
**TOTAL 9 HOURS**

### Management Major Residency Requirements

#### ENTREPRENEURSHIP CONCENTRATION

MGNT 371	Principles of Entrepreneurship	<b>3 hours</b>
MGNT 372	Small Business Management	<b>3 hours</b>

Three additional hours in concentration **3 hours**  
**TOTAL 9 HOURS**

### **GENERAL MANAGEMENT CONCENTRATION**

MGNT 450 Leadership in Organizations **3 hours**  
Six additional hours in concentration **6 hours**  
**TOTAL 9 HOURS**

### **HUMAN RESOURCE MANAGEMENT CONCENTRATION**

MGNT 368 Multicultural Management **3 hours**  
MGNT 460 Compensation and Benefits **3 hours**  
Three hours in a psychology course **3 hours**  
**TOTAL 9 HOURS**

### **INTERNATIONAL BUSINESS CONCENTRATION**

MGNT 368 Multicultural Management **3 hours**  
Six additional hours in concentration **6 hours**  
**TOTAL 9 HOURS**

### **Marketing Major Residency Requirements**

BMKT 424 Marketing Strategy **3 hours**  
Six additional hours in concentration **6 hours**  
**TOTAL 9 HOURS**

### **Nonprofit Management Major Residency Requirements**

BUAD 233 Introduction to the Nonprofit Sector (SERV-2) **3 hours**  
MGNT 452 Christian Missionary Entrepreneurship **3 hours**  
Three additional hours in concentration **3 hours**  
**TOTAL 9 HOURS**

### **LTCA Major Residency Requirements**

LTCA 431 General Administration of the Long Term Care Facility I **3 hours**  
LTCA 432 General Administration of the Long Term Care Facility II **3 hours**  
LTCA 434 Financial Management of the Long Term Care Facility **3 hours**  
LTCA 435 Human Resource Management and Marketing of the Long Term Care Facility **3 hours**  
LTCA 492 Long Term Care Administration Internship (SERV-2) **4-8 hours**  
**TOTAL 16-20 HOURS**

### **Residency Requirements**

- B.B.A. Degrees: 30 hours (21 hours core and 9 hours emphasis) of required business courses (not including required cognates) to be taken in residence.
- B.S. Business Administration Degree and Combined Degrees: 24 hours of required business courses (not including required cognates) to be taken in residence.
- B.S. Business Administration LTC Degree: 30 hours of required business courses (not including required cognates) to be taken in residence.
- B.S. Business Administration Nonprofit Degree: 30 hours (21 hours core business courses and 9 hours emphasis) of required courses (not including required cognates) to be taken in residence.



- A.S. Degrees: 15 hours of required business courses to be taken in residence.
- Minors: 9 hours of required business courses to be taken in residence.

## Assessment

To help the graduates in Business Administration to evaluate their academic progress and to aid the School in evaluating teaching effectiveness, students who major in business-related fields will be required to:

1. Participate in the university-wide testing program in general education.
2. Take the area test in business prepared by the Educational Testing Service (ETS) during the last semester of their academic program. This test may be integrated into an upper division course and may constitute part of the grade for that course.
3. Complete teacher evaluations for courses taken each semester.
4. Complete the Senior Exit Survey interview with the Dean prior to graduation.

## Programs

The School offers the following degrees:

1. Bachelor of Business Administration degree (B.B.A.) with majors in Financial Management, Computer Information Systems, Management and Marketing. Within two of these majors, the student may choose a concentration:

### Financial Management major:

- Accounting
- Finance

### Management major:

- Entrepreneurship
  - General Management
  - Human Resource Management
  - International Business
2. Bachelor of Science degree (B.S.) with majors in Business Administration, Long Term Care Administration, and Nonprofit Management.
  3. Associate of Science degree in Accounting.
  4. Associate of Science degree in Business Administration.
  5. A BBA/MBA concentration for the Bachelor of Business Administration degree and the Master of Business Administration degree or the Master of Financial Management degree in a five year period.

## BUSINESS ADMINISTRATION, B.S.

### Required Courses

ACCT 221	Principles of Accounting I (1-5) <b>3 hours</b>
ACCT 222	Principles of Accounting II <b>3 hours</b>

ACCT 321	Managerial Accounting <b>3 hours</b>
BMKT 326	Principles of Marketing <b>3 hours</b>
BUAD 310	Business Communications (W) <b>3 hours</b>
BUAD 339	Business Law <b>3 hours</b>
BUAD 358	Ethical, Social, and Legal Environment of Business (W) <b>3 hours</b>
ECON 224	Principles of Macroeconomics (I-5) <b>3 hours</b>
ECON 225	Principles of Microeconomics <b>3 hours</b>
FNCE 315	Business Finance <b>3 hours</b>
MGNT 334	Principles of Management <b>3 hours</b>
MGNT 350	Managing Business Networks and Operations <b>3 hours</b>
MGNT 364	International Business and Economics <b>3 hours</b>
MGNT 464	Business Strategies (W) <b>3 hours</b>
BUAD 288	Seminar in Business Administration <b>1 hour</b>
or BUAD 488	Seminar in Business Administration <b>1 hour</b>
<b>TOTAL 43 HOURS</b>	

### Required Cognates

BUAD 128	Personal Finance (I-5) <b>3 hours</b>
BUAD 217	Business-Computer Concepts and Applications (I-2b, I-2c) <b>3 hours</b>
BUAD 412	Preparing to Meet the Firms <b>1 hour</b> *
MATH 120	Precalculus Algebra (I-2a) <b>3 hours</b>
BUAD 221	Business Statistics <b>3 hours</b>
or MATH 215	Statistics (I-2a) <b>3 hours</b>

(\*Recommended to take in junior year)

### Required Electives

UD Elective in Business **3 hours**  
 Electives from any discipline to complete 124 hours

## LONG TERM CARE ADMINISTRATION, B.S.

### Required Courses

ACCT 221	Principles of Accounting I (I-5) <b>3 hours</b>
ACCT 222	Principles of Accounting II <b>3 hours</b>
ACCT 321	Managerial Accounting <b>3 hours</b>
BMKT 326	Principles of Marketing <b>3 hours</b>
BUAD 310	Business Communications (W) <b>3 hours</b>
BUAD 339	Business Law <b>3 hours</b>
BUAD 358	Ethical, Social, and Legal Environment of Business (W) <b>3 hours</b>
ECON 224	Principles of Macroeconomics (I-5) <b>3 hours</b>
ECON 225	Principles of Microeconomics <b>3 hours</b>
FNCE 315	Business Finance <b>3 hours</b>
LTCA 431	General Administration of the Long Term Care Facility I <b>3 hours</b>
LTCA 432	General Administration of the Long Term Care Facility II <b>3 hours</b>
LTCA 434	Financial Management of the Long Term Care Facility <b>3 hours</b>
LTCA 435	Human Resource Management and Marketing of the Long Term Care Facility <b>3 hours</b>
LTCA 492	Long Term Care Administration Internship (SERV-2) <b>4-8 hours</b>
MGNT 334	Principles of Management <b>3 hours</b>
MGNT 344	Human Resource Management <b>3 hours</b>
MGNT 350	Managing Business Networks and Operations <b>3 hours</b>
MGNT 420	Organizational Behavior <b>3 hours</b>
MGNT 464	Business Strategies (W) <b>3 hours</b>

BUAD 288 Seminar in Business Administration **1 hour**  
 or BUAD 488 Seminar in Business Administration **1 hour**

**TOTAL 62–66 HOURS**

*\*Recommend to take in junior year*

Students selecting the LTCA major are required to enter the major with a minimum ACT English score of 19. Students lacking this requirement may retake the ACT English portion of the exam in order to meet the minimum requirement.

Students who have previously earned a bachelor's degree from an accredited college or university and who have completed all course work equivalent to the B.S. Business Administration may receive a Bachelor of Science degree with a major in long-term care upon the completion of 20 hours of courses including LTCA 431, LTCA 432, LTCA 434, LTCA 435, LTCA 492; MGNT 344. The LTCA 431, LTCA 432, LTCA 434, and LTCA 435 courses are prerequisites for LTCA 492.

This exception (of 20 hours) to the 30-hour residence requirement applies only to those who have completed all other major course requirements for the long-term care degree at another institution and have received a bachelor's degree. Regular admission to the LTCA program is subject to receipt of an official transcript showing completion of the bachelor's degree from an accredited institution.

### Required Cognates

BUAD 217 Business-Computer Concepts and Applications (I-2b, I-2c) **3 hours**  
 BUAD 412 Preparing to Meet the Firms **1 hour**  
 MATH 120 Precalculus Algebra (I-2a) **3 hours**  
 PSYC 349 Aging and Society (S-2) (W) (SERV-2) **3 hours**  
 BUAD 221 Business Statistics **3 hours**  
 or MATH 215 Statistics (I-2a) **3 hours**

### Recommended Course

COMM 330 Intercultural Communication (I-3b) (W) **3 hours**

### Recommended Cognates

BIOL 101 Anatomy and Physiology (I-4a) **4 hours**  
 BUAD 128 Personal Finance (I-5) **3 hours**  
 RELT 373 Christian Ethics (R-4) **3 hours**

## NONPROFIT MANAGEMENT, B.S.

### Required Nonprofit Management Core

ACCT 221 Principles of Accounting I (I-5) **3 hours**  
 ACCT 222 Principles of Accounting II **3 hours**  
 ACCT 321 Managerial Accounting **3 hours**  
 BMKT 326 Principles of Marketing **3 hours**  
 BUAD 233 Introduction to the Nonprofit Sector (SERV-2) **3 hours**  
 BUAD 310 Business Communications (W) **3 hours**  
 BUAD 339 Business Law **3 hours**  
 BUAD 358 Ethical, Social, and Legal Environment of Business (W) **3 hours**  
 ECON 224 Principles of Macroeconomics (I-5) **3 hours**  
 FNCE 315 Business Finance **3 hours**  
 MGNT 334 Principles of Management **3 hours**

MGNT 450	Leadership in Organizations	<b>3 hours</b>
MGNT 452	Christian Missionary Entrepreneurship	<b>3 hours</b>
MGNT 464	Business Strategies (W)	<b>3 hours</b>
PREL 235	Public Relations Principles and Theory	<b>3 hours</b>
PREL 368	Fundraising for Nonprofits (SERV-2)	<b>3 hours</b>
BUAD 288	Seminar in Business Administration	<b>1 hour</b>
or BUAD 488	Seminar in Business Administration	<b>1 hour</b>
<b>TOTAL 49 HOURS</b>		

### Required Cognates

BUAD 128	Personal Finance (I-5)	<b>3 hours</b>
BUAD 217	Business-Computer Concepts and Applications (I-2b, I-2c)	<b>3 hours</b>
BUAD 412	Preparing to Meet the Firms	<b>1 hour *</b>
MATH 120	Precalculus Algebra (I-2a)	<b>3 hours</b>

*Note(s):\*Recommend to take in junior year*

### INTERNATIONAL/COMMUNITY RELATIONS CONCENTRATION

#### Required Courses

Nonprofit Management Core **49 hours**

#### Select fifteen (15) hours from the following:

GEOG 204	World Geography (I-3b) (SERV-2)	<b>3 hours</b>
GPSS 220	Global Politics (I-3b)	<b>3 hours</b>
GPSS 291	GPS Practicum	<b>3 hours</b>
GPSS 350	Sustainability Studies	<b>3 hours</b>
GPSS 360	Political Economy	<b>3 hours</b>
GPSS 370	Policies in Global Health (W)	<b>3 hours</b>
GPSS 491	GPS Practicum	<b>3 hours</b>
MGNT 364	International Business and Economics	<b>3 hours</b>
MGNT 368	Multicultural Management	<b>3 hours</b>
MGNT 492	Management Internship	<b>1-3 hours</b>
RELP 391	Practicum (SERV-2)	<b>1-3 hours</b>
RELT 458	World Religions (W) (R-4)	<b>3 hours</b>
Intermediate Foreign Language		<b>3 hours</b>
COMM 330	Intercultural Communication (I-3b) (W)	<b>3 hours</b>
or SOCI 230	Multicultural Relations (I-3b)	<b>3 hours</b>

**TOTAL 64 HOURS**

### NONPROFIT LEADERSHIP CONCENTRATION

#### Required Courses

Nonprofit Management Core **49 hours**

BMKT 327	Consumer Behavior	<b>3 hours</b>
BMKT 410	Service Marketing	<b>3 hours</b>
BUAD 221	Business Statistics	<b>3 hours</b>
GPSS 110	Human Rights and Service (I-3b) (SERV-2)	<b>3 hours</b>
GPSS 291	GPS Practicum	<b>3 hours</b>
GPSS 350	Sustainability Studies	<b>3 hours</b>
GPSS 360	Political Economy	<b>3 hours</b>
GPSS 491	GPS Practicum	<b>3 hours</b>
MGNT 350	Managing Business Networks and Operations	<b>3 hours</b>
MGNT 371	Principles of Entrepreneurship	<b>3 hours</b>
MGNT 372	Small Business Management	<b>3 hours</b>

MGNT 420	Organizational Behavior	<b>3 hours</b>
MGNT 492	Management Internship	<b>1–3 hours</b>
RELP 391	Practicum (SERV-2)	<b>1–3 hours</b>
<b>TOTAL 64 HOURS</b>		

## B.B.A. CORE

### Required Core

ACCT 221	Principles of Accounting I (I–5)	<b>3 hours</b>
ACCT 222	Principles of Accounting II	<b>3 hours</b>
BMKT 326	Principles of Marketing	<b>3 hours</b>
BUAD 310	Business Communications (W)	<b>3 hours</b>
BUAD 339	Business Law	<b>3 hours</b>
BUAD 358	Ethical, Social, and Legal Environment of Business (W)	<b>3 hours</b>
ECON 224	Principles of Macroeconomics (I–5)	<b>3 hours</b>
ECON 225	Principles of Microeconomics	<b>3 hours</b>
FNCE 315	Business Finance	<b>3 hours</b>
MGNT 334	Principles of Management	<b>3 hours</b>
MGNT 350	Managing Business Networks and Operations	<b>3 hours</b>
MGNT 364	International Business and Economics	<b>3 hours</b>
MGNT 464	Business Strategies (W)	<b>3 hours</b>
BUAD 288	Seminar in Business Administration	<b>1 hour</b>
	or BUAD 488 Seminar in Business Administration	<b>1 hour</b>
<b>TOTAL 40 HOURS</b>		

### Required Cognates

BUAD 128	Personal Finance (I-5)	<b>3 hours**</b>
BUAD 217	Business-Computer Concepts and Applications (I-2b, I-2c)	<b>3 hours</b>
BUAD 412	Preparing to Meet the Firms	<b>1 hour*</b>
MATH 120	Precalculus Algebra (I-2a)	<b>3 hours (or above)**</b>
PSYC or SOCI	Any 3-hour class as prescribed under (S-2)	<b>3 hours**</b>
BUAD 221	Business Statistics	<b>3 hours</b>
	or MATH 215 Statistics (I-2a)	<b>3 hours</b>

*\*Recommend to take in Junior year*

*\*\*Also satisfies a General Education requirement*

## COMPUTER INFORMATION SYSTEMS, B.B.A.

### Required Courses

B.B.A. Core		<b>40 hours</b>
CPIS 443	Software Evaluation	<b>3 hours</b>
CPTe 212	Web Programming	<b>3 hours</b>
CPTR 110	Computational Thinking for the Sciences (I-2b, I-2c)	<b>3 hours</b>
CPTR 124	Fundamentals of Programming (S-3d)	<b>4 hours</b>
CPTR 209	Introduction to Software Engineering	<b>4 hours</b>
CPTR 215	Fundamentals of Software Design	<b>4 hours</b>
CPTR 319	Database Management Systems	<b>3 hours</b>
CPTR 488	Senior Project	<b>2 hours</b>
<b>TOTAL 66 HOURS</b>		

### **Required Cognate**

CPT 110 Introduction to Web Development (I-2c) **1 hour**  
or JOUR 242 Intro to Web Design **3 hours**

## **FINANCIAL MANAGEMENT, B.B.A.**

### **ACCOUNTING CONCENTRATION**

#### **Required Courses**

B.B.A. Core **40 hours**  
ACCT 311 Intermediate Accounting I **4 hours**  
ACCT 312 Intermediate Accounting II **4 hours**  
ACCT 450 Advanced Accounting **3 hours**  
FNCE 450 Working Capital Management **3 hours**  
UD Accounting Electives **12 hours**  
**TOTAL 66 HOURS**

Accounting majors need 150 semester hours before sitting for the CPA examination in Tennessee and most other jurisdictions.

### **FINANCE CONCENTRATION**

#### **Required Courses**

B.B.A. Core **40 hours**  
ACCT 311 Intermediate Accounting I **4 hours**  
ACCT 312 Intermediate Accounting II **4 hours**  
FNCE 450 Working Capital Management **3 hours**  
UD Finance Electives **6 hours**  
UD Business Electives **6 hours** (Select three (3) of the six (6) hours from one of the following accounting courses: ACCT 321, ACCT 450 or ACCT 456.  
**TOTAL 63 HOURS**  
**TOTAL 63-66 HOURS**

## **MANAGEMENT, B.B.A.**

### **ENTREPRENEURSHIP CONCENTRATION**

#### **Required Courses**

B.B.A. Core **40 hours**  
ACCT 321 Managerial Accounting **3 hours**  
MGNT 344 Human Resource Management **3 hours**  
MGNT 368 Multicultural Management **3 hours**  
MGNT 371 Principles of Entrepreneurship **3 hours**  
MGNT 372 Small Business Management **3 hours**  
MGNT 420 Organizational Behavior **3 hours**  
MGNT 450 Leadership in Organizations **3 hours**  
UD Business Elective **3 hours**  
**TOTAL 64 HOURS**

### **GENERAL MANAGEMENT CONCENTRATION**

#### **Required Courses**

B.B.A. Core **40 hours**  
ACCT 321 Managerial Accounting **3 hours**

MGNT 344	Human Resource Management	<b>3 hours</b>
MGNT 368	Multicultural Management	<b>3 hours</b>
MGNT 372	Small Business Management	<b>3 hours</b>
MGNT 420	Organizational Behavior	<b>3 hours</b>
MGNT 450	Leadership in Organizations	<b>3 hours</b>
UD Management Elective		<b>3 hours</b>
<b>TOTAL</b>		<b>61 HOURS</b>

## **HUMAN RESOURCE MANAGEMENT CONCENTRATION**

### **Required Courses**

B.B.A. Core		<b>40 hours</b>
ACCT 321	Managerial Accounting	<b>3 hours</b>
PSYC 253	Industrial/Organizational Psychology	<b>3 hours</b>
PSYC 357	Psychological Testing	<b>3 hours</b>
MGNT 344	Human Resource Management	<b>3 hours</b>
MGNT 368	Multicultural Management	<b>3 hours</b>
MGNT 420	Organizational Behavior	<b>3 hours</b>
MGNT 450	Leadership in Organizations	<b>3 hours</b>
MGNT 460	Compensation and Benefits	<b>3 hours</b>
<b>TOTAL</b>		<b>64 HOURS</b>

### **Required Cognate**

PSYC 224	Social Psychology (S-2)	<b>3 hours</b>
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## **INTERNATIONAL BUSINESS CONCENTRATION**

### **Required Courses**

B.B.A. Core		<b>40 hours</b>
ACCT 321	Managerial Accounting	<b>3 hours</b>
BMKT 375	International Marketing	<b>3 hours</b>
MGNT 344	Human Resource Management	<b>3 hours</b>
MGNT 368	Multicultural Management	<b>3 hours</b>
MGNT 450	Leadership in Organizations	<b>3 hours</b>
UD Business Elective		<b>3 hours</b>
<b>TOTAL</b>		<b>58 HOURS</b>

### **Required Cognates**

COMM 330	Intercultural Communication (I-3b) (W)	<b>3 hours</b>
GEOG 204	World Geography (I-3b) (SERV-2)	<b>3 hours</b>
RELT 458	World Religions (W) (R-4)	<b>3 hours</b>
SOCI 150	Cultural Anthropology (I-3b) (S-2)	<b>3 hours</b>
Intermediate Foreign Language		<b>6 hours</b>

### **Required Experience**

Students in the International Business Concentration will be required to spend at least one semester abroad in an approved program of study as part of their experience.

### **Recommended Cognates**

HIST 174	World Civilizations I (I-3a)	<b>3 hours</b>
HIST 175	World Civilizations II (I-3a)	<b>3 hours</b>
PSYC 231	Multicultural Relations (I-3b)	<b>3 hours</b>
<b>TOTAL</b>		<b>58–64 HOURS</b>

## **MARKETING, B.B.A.**

### **Required Courses**

B.B.A. Core **40 hours**

ACCT 321	Managerial Accounting <b>3 hours</b>
BMKT 327	Consumer Behavior <b>3 hours</b>
BMKT 345	Marketing Technology <b>3 hours</b>
BMKT 375	International Marketing <b>3 hours</b>
BMKT 410	Service Marketing <b>3 hours</b>
BMKT 423	Promotional Strategy (SERV-2) <b>3 hours</b>
BMKT 424	Marketing Strategy <b>3 hours</b>
BMKT 497	Marketing Research <b>3 hours</b>

**TOTAL 64 HOURS**

## **BUSINESS ADMINISTRATION AND PUBLIC RELATIONS, B.S.**

### **Business Administration**

*(The dual major provides students with the option to develop skills in two fields of study. Because of the joint course requirements, the dual major requires only four hours above the graduation requirement from a single major in Business Administration. May require an additional semester in the program)*

### **Required Courses**

ACCT 221	Principles of Accounting I (I-5) <b>3 hours</b>
ACCT 222	Principles of Accounting II <b>3 hours</b>
ACCT 321	Managerial Accounting <b>3 hours</b>
BUAD 310	Business Communications (W) <b>3 hours</b>
BUAD 339	Business Law <b>3 hours</b>
BMKT 326	Principles of Marketing <b>3 hours</b>
ECON 224	Principles of Macroeconomics (I-5) <b>3 hours</b>
ECON 225	Principles of Microeconomics <b>3 hours</b>
FNCE 315	Business Finance <b>3 hours</b>
MGNT 334	Principles of Management <b>3 hours</b>
MGNT 350	Managing Business Networks and Operations <b>3 hours</b>
MGNT 364	International Business and Economics <b>3 hours</b>
MGNT 464	Business Strategies (W) <b>3 hours</b>
BUAD 288	Seminar in Business Administration <b>1 hour</b>
or BUAD 488	Seminar in Business Administration <b>1 hour</b>

**TOTAL 40 HOURS**

### **Required Cognates**

BUAD 128	Personal Finance (I-5) <b>3 hours</b>
BUAD 217	Business-Computer Concepts and Applications (I-2b, I-2c) <b>3 hours</b>
BUAD 412	Preparing to Meet the Firms <b>1 hour</b> *
MATH 120	Precalculus Algebra (I-2a) <b>3 hours</b>
BUAD 221	Business Statistics <b>3 hours</b>
or MATH 215	Statistics (I-2a) <b>3 hours</b>

*(\*Recommended to take in junior year)*



## Public Relations

### Required Courses

COMM 103	Introduction to Mass Communication	<b>3 hours</b>
COMM 397	Communication Research (W)	<b>3 hours</b>
COMM 406	Persuasion and Propaganda (W)	<b>3 hours</b>
JOUR 105	Writing for the Media	<b>3 hours</b>
JOUR 205	News Reporting	<b>3 hours</b>
JOUR 208	Publication Tools and Techniques	<b>3 hours</b>
JOUR 242	Intro to Web Design	<b>3 hours</b>
JOUR 313	Publication Editing	<b>3 hours</b>
PHTO 125	Introduction to Photography (S-3c)	<b>3 hours</b>
PREL 235	Public Relations Principles and Theory	<b>3 hours</b>
PREL 344	Fundamentals of Advertising	<b>3 hours</b>
PREL 482	The Public Relations Campaign	<b>3 hours</b>
PREL 485	Public Relations Techniques	<b>3 hours</b>

### Select three (3) hours from the following:

BUAD 358	Ethical, Social, and Legal Environment of Business (W)	<b>3 hours</b>
JOUR 427	Mass Media Law and Ethics	<b>3 hours</b>

**TOTAL 42 HOURS**

**TOTAL 82 HOURS**

## BUSINESS ADMINISTRATION AND AUTO SERVICE, B.S./A.T.

### Business Administration

*May require an additional semester to the program.*

### Required Courses

ACCT 221	Principles of Accounting I (I-5)	<b>3 hours</b>
ACCT 222	Principles of Accounting II	<b>3 hours</b>
ACCT 321	Managerial Accounting	<b>3 hours</b>
BUAD 310	Business Communications (W)	<b>3 hours</b>
BUAD 339	Business Law	<b>3 hours</b>
BUAD 358	Ethical, Social, and Legal Environment of Business (W)	<b>3 hours</b>
BMKT 326	Principles of Marketing	<b>3 hours</b>
ECON 224	Principles of Macroeconomics (I-5)	<b>3 hours</b>
ECON 225	Principles of Microeconomics	<b>3 hours</b>
FNCE 315	Business Finance	<b>3 hours</b>
MGNT 334	Principles of Management	<b>3 hours</b>
MGNT 350	Managing Business Networks and Operations	<b>3 hours</b>
MGNT 364	International Business and Economics	<b>3 hours</b>
MGNT 464	Business Strategies (W)	<b>3 hours</b>
BUAD 288	Seminar in Business Administration	<b>1 hour</b>
or BUAD 488	Seminar in Business Administration	<b>1 hour</b>

**TOTAL 43 HOURS**

### Required Cognates

BUAD 128	Personal Finance (I-5)	<b>3 hours</b>
BUAD 217	Business-Computer Concepts and Applications (I-2b, I-2c)	<b>3 hours</b>
BUAD 412	Preparing to Meet the Firms	<b>1 hour *</b>

MATH 120 Precalculus Algebra (I-2a) **3 hours**

BUAD 221 Business Statistics **3 hours**

or MATH 215 Statistics (I-2a) **3 hours**

*\*Recommend to take in Junior year*

## **Auto Service**

### **Required Courses**

TECH 114 Oxy-Acetylene Welding (S-3d) **1 hour**  
TECH 115 Arc Welding (S-3d) (SERV-2) **2 hours**  
TECH 166 Auto Electrical Systems (S-3d) **2 hours**  
TECH 167 Suspension, Steering and Alignment **3 hours**  
TECH 168 Manual Drive Train, and Axles (S-3d) **3 hours**  
TECH 169 Automotive Brakes (S-3d) **3 hours**  
TECH 178 Heating and Air Conditioning (S-3d) **2 hours**  
TECH 230 Automatic Transmission **3 hours**  
TECH 264 Automotive Repair (S-3d) **3 hours**  
TECH 273 Estimating and Automotive Business Practices **1 hour**  
TECH 277 Engine Fuel and Emission Controls **4 hours**  
TECH 291 Practicum **1-3 hours** (3 hours required)  
TECH 299 Advanced Engine Performance **3 hours**  
TECH 175 Engine Rebuilding and Machining (S-3d) **4 hours**  
or TECH 375 Engine Rebuilding and Machining **4 hours**  
TECH 276 Engine Performance and Computers (S-3d) **3 hours**  
or TECH 377 Engine Performance and Computers **3 hours**

**TOTAL 40 HOURS**

### **Required Cognates**

MGNT 371 Principles of Entrepreneurship **3 hours**

MGNT 372 Small Business Management **3 hours**

**TOTAL 83 HOURS**

## **ACCOUNTING, A.S.**

### **Required Courses**

ACCT 221 Principles of Accounting I (I-5) **3 hours**  
ACCT 222 Principles of Accounting II **3 hours**  
ACCT 311 Intermediate Accounting I **4 hours**  
ACCT 312 Intermediate Accounting II **4 hours**  
BUAD 217 Business-Computer Concepts and Applications (I-2b, I-2c) **3 hours**  
BUAD 358 Ethical, Social, and Legal Environment of Business (W) **3 hours**  
ECON 224 Principles of Macroeconomics (I-5) **3 hours**  
UD Accounting Electives **6 hours**

**TOTAL 29 HOURS**

### **Required Cognates**

BUAD 128 Personal Finance (I-5) **3 hours**

## **BUSINESS ADMINISTRATION, A.S.**

### **Required Courses**

ACCT 221 Principles of Accounting I (I-5) **3 hours**

ACCT 222 Principles of Accounting II **3 hours**

ACCT 321	Managerial Accounting	<b>3 hours</b>
BMKT 326	Principles of Marketing	<b>3 hours</b>
BUAD 217	Business-Computer Concepts and Applications (I-2b, I-2c)	<b>3 hours</b>
BUAD 310	Business Communications (W)	<b>3 hours</b>
ECON 224	Principles of Macroeconomics (I-5)	<b>3 hours</b>
ECON 225	Principles of Microeconomics	<b>3 hours</b>
MGNT 334	Principles of Management	<b>3 hours</b>
Business Elective		<b>3 hours</b>
<b>TOTAL 30 HOURS</b>		

(Recommended elective BMKT 328 Sales Management)

### Required Cognates

BUAD 128	Personal Finance (I-5)	<b>3 hours</b>
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## PERSONAL SELLING, A.S.

### Required Courses

BMKT 229	Personal Selling	<b>3 hours</b>
BMKT 292	Sales Internship	<b>3 hours</b>
BMKT 326	Principles of Marketing	<b>3 hours</b>
BMKT 327	Consumer Behavior	<b>3 hours</b>
BMKT 328	Sales Management	<b>3 hours</b>
BUAD 288	Seminar in Business Administration	<b>1 hour</b>
BUAD 339	Business Law	<b>3 hours</b>
MGNT 334	Principles of Management	<b>3 hours</b>
Business Elective		<b>3 hours</b>
ACCT 103	College Accounting (I-5)	<b>3 hours</b>
or ACCT 221	Principles of Accounting I (I-5)	<b>3 hours</b>
ECON 213	Survey of Economics (I-5)	<b>3 hours</b>
or ECON 224	Principles of Macroeconomics (I-5)	<b>3 hours</b>
<b>TOTAL 31 HOURS</b>		

### Required Cognates

BUAD 128	Personal Finance (I-5)	<b>3 hours</b>
BUAD 217	Business-Computer Concepts and Applications (I-2b, I-2c)	<b>3 hours</b>
MATH 111	Survey of Mathematics (I-2a)	<b>3 hours</b>
or MATH 120	Precalculus Algebra (I-2a)	<b>3 hours</b>

### Recommended Elective

BUAD 310	Business Communications (W)	<b>3 hours</b>
or COMM 240	Communication Theory	<b>3 hours</b>

## BUSINESS ADMINISTRATION MINOR

### Required Courses

ACCT 221	Principles of Accounting I (I-5)	<b>3 hours</b>
ACCT 222	Principles of Accounting II	<b>3 hours</b>
ECON 224	Principles of Macroeconomics (I-5)	<b>3 hours</b>
UD Business Elective		<b>6 hours</b>
MGNT 334	Principles of Management	<b>3 hours</b>
or MGNT 344	Human Resource Management	<b>3 hours</b>
<b>TOTAL 18 HOURS</b>		

## **ENTREPRENEURIAL MANAGEMENT MINOR**

### **Required Courses**

ACCT 103	College Accounting (I-5) <b>3 hours*</b>
ECON 213	Survey of Economics (I-5) <b>3 hours*</b>
MGNT 371	Principles of Entrepreneurship <b>3 hours</b>
MGNT 372	Small Business Management <b>3 hours</b>
Electives in Mgmt/Mktg <b>6 hours</b>	
<b>TOTAL 18 HOURS</b>	

*\* Does not apply for business majors*

## **FINANCE MINOR**

### **Required Courses**

ACCT 311	Intermediate Accounting I <b>4 hours</b>
ACCT 321	Managerial Accounting <b>3 hours</b>
FNCE 315	Business Finance <b>3 hours</b>
FNCE 450	Working Capital Management <b>3 hours</b>
FNCE 452	Financial Markets, Rates, and Flows <b>3 hours</b>
FNCE 455	Fundamentals of Investments <b>3 hours</b>
<b>TOTAL 19 HOURS</b>	

## **HUMAN RESOURCE MANAGEMENT MINOR**

### **Required Courses**

BUAD 310	Business Communications (W) <b>3 hours</b>
BUAD 358	Ethical, Social, and Legal Environment of Business (W) <b>3 hours</b>
MGNT 334	Principles of Management <b>3 hours</b>
MGNT 344	Human Resource Management <b>3 hours</b>
MGNT 420	Organizational Behavior <b>3 hours</b>
PSYC 224	Social Psychology (S-2) <b>3 hours</b>
PSYC 357	Psychological Testing <b>3 hours</b>
<b>TOTAL 21 HOURS</b>	

### **Required in General Education**

PSYC 122	General Psychology (S-2) <b>3 hours</b>
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## **MANAGEMENT MINOR**

### **Required Courses**

ACCT 221	Principles of Accounting I (I-5) <b>3 hours</b>
MGNT 334	Principles of Management <b>3 hours</b>
MGNT 344	Human Resource Management <b>3 hours</b>
UD Electives Business <b>6 hours</b>	
MGNT 371	Principles of Entrepreneurship <b>3 hours</b>
or MGNT 372 Small Business Management <b>3 hours</b>	
<b>TOTAL 18 HOURS</b>	

## MARKETING MINOR

### Required Courses

ACCT 221	Principles of Accounting I (I-5)	<b>3 hours</b>
BMKT 326	Principles of Marketing	<b>3 hours</b>
BMKT 327	Consumer Behavior	<b>3 hours</b>
BMKT 328	Sales Management	<b>3 hours</b>
BMKT 424	Marketing Strategy	<b>3 hours</b>
UD Electives in Marketing		<b>3 hours</b>
<b>TOTAL 18 HOURS</b>		

### Recommended Cognate

ECON 225	Principles of Microeconomics	<b>3 hours</b>
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## NONPROFIT MINOR

### Required Courses

ACCT 221	Principles of Accounting I (I-5)	<b>3 hours</b>
BMKT 326	Principles of Marketing	<b>3 hours</b>
BUAD 233	Introduction to the Nonprofit Sector (SERV-2)	<b>3 hours</b>
MGNT 334	Principles of Management	<b>3 hours</b>
MGNT 452	Christian Missionary Entrepreneurship	<b>3 hours</b>
PREL 368	Fundraising for Nonprofits (SERV-2)	<b>3 hours</b>
<b>TOTAL 18 HOURS</b>		

## SALES MINOR

### Required Courses

BMKT 229	Personal Selling	<b>3 hours</b>
BMKT 326	Principles of Marketing	<b>3 hours</b>
BMKT 327	Consumer Behavior	<b>3 hours</b>
BMKT 328	Sales Management	<b>3 hours</b>
COMM 336	Interpersonal Communication	<b>3 hours</b>
BMKT 292	Sales Internship	<b>3 hours</b>
	or BMKT 492 Marketing Internship	<b>3 hours</b>
<b>TOTAL 18 HOURS</b>		
BUAD 288	Seminar in Business Administration	<b>1 hour</b>
	or BUAD 488 Seminar in Business Administration	<b>1 hour</b>
<b>TOTAL 43 HOURS</b>		

### Required Cognates

BUAD 128	Personal Finance (I-5)	<b>3 hours</b>
BUAD 217	Business-Computer Concepts and Applications (I-2b, I-2c)	<b>3 hours</b>
BUAD 412	Preparing to Meet the Firms	<b>1 hour *</b>
MATH 120	Precalculus Algebra (I-2a)	<b>3 hours</b>
BUAD 221	Business Statistics	<b>3 hours</b>
	or MATH 215 Statistics (I-2a)	<b>3 hours</b>

*\*Recommend to take in Junior year*

# Chemistry

**Chair:** Brent Hamstra

**Faculty:** Loren Barnhurst, Jan Cathey, Brent Hamstra, Mitch Menzmer, Herman H. Odens, Bruce Schilling, Rhonda Scott

**Program Coordinator:** All majors, Brent Hamstra

A major in chemistry can prepare you for a rewarding and challenging career in traditional areas such as chemical engineering, environmental chemistry, quality assurance, basic or applied chemical research, and teaching at the high school or post secondary level. A major in chemistry is also excellent preparation for a career in biomedical research, medicine or dentistry, pharmacology, patent law, and forensic science. In a recent article published in the *Journal of Forensic Science*, crime lab directors stated they would preferentially hire individuals with a B.S. in chemistry. The B.S. degree in Chemistry is recommended in preparation for graduate study leading to research oriented careers in chemistry, professional applications of chemistry, or post-secondary education. The B.S. degree in Chemistry, Biochemistry emphasis, is recommended for students preparing for careers in medicine or dentistry as well as graduate study, research or teaching in biochemistry, molecular biology, or biotechnology. The B.A. degree is the preferred degree for high-school teaching, pre-paramedical fields, and some business applications.

## Mission Statement

Within a Christian environment of learning, the Chemistry Department seeks to provide undergraduate students with the knowledge and skills necessary for distinguished professional performance in chemistry or other fields that require a strong background in chemistry.

## Assessment

To aid the chemistry department in evaluating teaching effectiveness, nationally standardized tests prepared by the American Chemical Society are administered at the end of each course for which an appropriate test is available. Students majoring in chemistry are expected to achieve a minimum score of 40th percentile on these exams and achieve a grade of C- or above in their chemistry courses.

## CHEMISTRY, B.S.

### Required Courses

CHEM 151	General Chemistry (I-4b) <b>4 hours</b>
CHEM 152	General Chemistry (I-4b) <b>4 hours</b>
CHEM 311	Organic Chemistry <b>4 hours</b>
CHEM 312	Organic Chemistry <b>4 hours</b>
CHEM 315	Quantitative Analysis <b>4 hours</b>
CHEM 321	Instrumental Analysis <b>4 hours</b>
CHEM 361	Biochemistry I <b>4 hours</b>
CHEM 385	Chemistry Seminar <b>1 hour</b>
CHEM 411	Physical Chemistry I (W) <b>4 hours</b>
CHEM 415	Physical Chemistry II <b>3 hours</b>

CHEM 435	Inorganic Chemistry <b>4 hours</b>
CHEM 497	Introduction to Research (W) <b>1-2 hours</b> (1 hour required)
<b>TOTAL 41 HOURS</b>	

*NOTE: Some upper division courses are offered in alternate years; the student should plan accordingly.*

### Required Cognates

MATH 191	Calculus I <b>4 hours</b>
MATH 192	Calculus II <b>4 hours</b>
MATH 315	Differential Equations <b>3 hours</b>
PHYS 221	University Physics I (I-4d) <b>4 hours</b>
PHYS 222	University Physics II (I-4d) <b>4 hours</b>
PHYS 223	University Physics Laboratory I <b>1 hour</b>
PHYS 224	University Physics Laboratory II <b>1 hour</b>

## CHEMISTRY, BIOCHEMISTRY EMPHASIS, B.S.

### Required Courses

BIOL 311	Genetics <b>4 hours</b>
CHEM 151	General Chemistry (I-4b) <b>4 hours</b>
CHEM 152	General Chemistry (I-4b) <b>4 hours</b>
CHEM 311	Organic Chemistry <b>4 hours</b>
CHEM 312	Organic Chemistry <b>4 hours</b>
CHEM 315	Quantitative Analysis <b>4 hours</b>
CHEM 361	Biochemistry I <b>4 hours</b>
CHEM 362	Biochemistry II <b>3 hours</b>
CHEM 363	Biochemistry Laboratory <b>1 hour</b>
CHEM 385	Chemistry Seminar <b>1 hour</b>
CHEM 411	Physical Chemistry I (W) <b>4 hours</b>
CHEM 497	Introduction to Research (W) <b>1-2 hours</b> (1 hour required)
Chemistry Electives <b>3 hours</b>	
<b>TOTAL 41 HOURS</b>	

*NOTE: To meet the recommendations of the American Society for Biochemistry and Molecular Biology (ASBMB) and the American Chemical Society (ACS) the second math course must be MATH 192. Some upper division courses are offered in alternate years; the student should plan accordingly.*

### Required Cognates

BIOL 151	General Biology (I-4a) <b>4 hours</b>
BIOL 152	General Biology (I-4a) <b>4 hours</b>
MATH 191	Calculus I <b>4 hours</b>
MATH 192	Calculus II <b>4 hours</b>
or MATH 215	Statistics (I-2a) <b>3 hours</b>
PHYS 211	General Physics I (I-4d) <b>3 hours</b>
PHYS 212	General Physics II (I-4d) <b>3 hours</b>
PHYS 213	General Physics Laboratory I <b>1 hour</b>
PHYS 214	General Physics Laboratory II <b>1 hour</b>
or PHYS 221	University Physics I (I-4d) <b>4 hours</b>
PHYS 222	University Physics II (I-4d) <b>4 hours</b>
PHYS 223	University Physics Laboratory I <b>1 hour</b>
PHYS 224	University Physics Laboratory II <b>1 hour</b>

**Select one (1) course from the following:**

- BIOL 340 Immunology **3 hours**
- BIOL 412 Cell and Molecular Biology **4 hours**
- BIOL 418 Animal Physiology **3 hours**

**CHEMISTRY, B.A.****Required Courses**

- CHEM 151 General Chemistry (I-4b) **4 hours**
- CHEM 152 General Chemistry (I-4b) **4 hours**
- CHEM 311 Organic Chemistry **4 hours**
- CHEM 312 Organic Chemistry **4 hours**
- CHEM 315 Quantitative Analysis **4 hours**
- CHEM 385 Chemistry Seminar **1 hour**
- CHEM 411 Physical Chemistry I (W) **4 hours**
- CHEM 497 Introduction to Research (W) **1-2 hours** (1 hour required)
- Chemistry Electives **4 hours**
- TOTAL 30 HOURS**

*NOTE: Some upper division courses are offered in alternate years; the student should plan accordingly.*

**Required Cognates**

- MATH 191 Calculus I **4 hours**
- MATH 192 Calculus II **4 hours**
- or MATH 215 Statistics (I-2a) **3 hours**
- PHYS 211 General Physics I (I-4d) **3 hours**
- PHYS 212 General Physics II (I-4d) **3 hours**
- PHYS 213 General Physics Laboratory I **1 hour**
- PHYS 214 General Physics Laboratory II **1 hour**
- or PHYS 221 University Physics I (I-4d) **4 hours**
- PHYS 222 University Physics II (I-4d) **4 hours**
- PHYS 223 University Physics Laboratory I **1 hour**
- PHYS 224 University Physics Laboratory II **1 hour**

**CHEMISTRY, TEACHER CERTIFICATION, B.A.****Required Courses**

- CHEM 151 General Chemistry (I-4b) **4 hours**
- CHEM 152 General Chemistry (I-4b) **4 hours**
- CHEM 311 Organic Chemistry **4 hours**
- CHEM 312 Organic Chemistry **4 hours**
- CHEM 315 Quantitative Analysis **4 hours**
- CHEM 361 Biochemistry I **4 hours**
- CHEM 363 Biochemistry Laboratory **1 hour**
- CHEM 385 Chemistry Seminar **1 hour**
- CHEM 411 Physical Chemistry I (W) **4 hours**
- CHEM 497 Introduction to Research (W) **1-2 hours** (1 hour required)
- TOTAL 31 HOURS**

It is strongly recommended that students work towards certification in a second area of study such as mathematics or another science area. See the School of Education and Psychology for listing of professional requirements (37 hours) and general education requirements (32–36 hours).



The student must apply for Initial Admission to the Teacher Education Program (usually by the end of the sophomore year) after completing all requirements as outlined under ADMISSION PROCEDURES in the School of Education and Psychology section of the catalog. Initial admission is required before the student can enroll in upper division education courses.

The student must also complete an application and all other requirements for Admission to Student Teaching. Prior to the professional semester, the student must take and pass the PRAXIS II licensure exam—both the appropriate section of the Principles of Learning and Teaching, and the particular specialty test(s) for the licensure area(s).

### Required Cognates

BIOL 151	General Biology (I-4a)	<b>4 hours</b>
MATH 191	Calculus I	<b>4 hours</b>
RELT 317	Issues in Physical Science and Religion (R-4)	<b>3 hours</b>
ERSC 105	Earth Science (I-4c)	<b>3 hours</b>
or PHYS 155	Descriptive Astronomy: Creation and Cosmology (I-4d)	<b>3 hours</b>
MATH 192	Calculus II	<b>4 hours</b>
or MATH 215	Statistics (I-2a)	<b>3 hours</b>
PHYS 211	General Physics I (I-4d)	<b>3 hours</b>
PHYS 212	General Physics II (I-4d)	<b>3 hours</b>
PHYS 213	General Physics Laboratory I	<b>1 hour</b>
PHYS 214	General Physics Laboratory II	<b>1 hour</b>
or PHYS 221	University Physics I (I-4d)	<b>4 hours</b>
PHYS 222	University Physics II (I-4d)	<b>4 hours</b>
PHYS 223	University Physics Laboratory I	<b>1 hour</b>
PHYS 224	University Physics Laboratory II	<b>1 hour</b>

## CHEMISTRY MINOR

### Required Courses

CHEM 151	General Chemistry (I-4b)	<b>4 hours</b>
CHEM 152	General Chemistry (I-4b)	<b>4 hours</b>
Chemistry Electives		<b>10 hours *</b>
<b>TOTAL</b>		<b>18 HOURS</b>

*\*A minimum of six hours must be upper division.*

## CHEMISTRY, ENDORSEMENT FOR TEACHER EDUCATION

An endorsement to teach chemistry as an additional field may be obtained by completing a major in another field (preferably mathematics or another science with secondary certification), completing a minor in chemistry that includes the courses listed below, and taking and passing the PRAXIS II licensure exams required for certification in chemistry.

### Required Courses

CHEM 151	General Chemistry (I-4b)	<b>4 hours</b>
CHEM 152	General Chemistry (I-4b)	<b>4 hours</b>
CHEM 311	Organic Chemistry	<b>4 hours</b>
CHEM 312	Organic Chemistry	<b>4 hours</b>

Upper Division **4 hours** \*

**TOTAL 20 HOURS**

*\*The upper division course should be carefully chosen in consultation with your adviser and a faculty member in the chemistry department to determine what course will best help you prepare for the PRAXIS exams needed for certification in chemistry. Most often this course will be either CHEM 315 Quantitative Analysis or CHEM 361 Biochemistry I.*

# School of Computing

**Dean:** Richard Halterman

**Faculty:** Scot Anderson, John Beckett, Michael Dant, Tyson Hall, Timothy D. Korson, Robert Ordóñez

**Program Coordinator:** All programs, Richard Halterman

## Mission Statement

The mission of Southern Adventist University's School of Computing is to provide an exemplary Christian learning environment that enables students to become Christian computing professionals, who, in addition to being competent in their chosen profession, realize their responsibility to God, church, family, employer, colleagues, and society.

## Majors in Computing

The rapidly expanding field of computing continues to demand an ever-increasing number of technically educated people. The type of computer education needed also continues to shift. Computer graduates this year will be taking jobs that were not even available when they entered college four years ago. Southern Adventist University offers several computer curricula designed to meet the needs of students desiring to enter the computing field but coming to the University with a wide-range of interests and abilities.

The B.S. in **Computer Science, Computer Science Concentration**, is designed to prepare for a wide range of computing professions. Software engineers, software developers, systems analysts, programmer/analysts, network engineers, database administrators, and data specialists are among the professions held by computer scientists.

The B.S. in **Computer Science, Embedded Systems Concentration**, is designed to prepare students for work in the exciting field of embedded systems. Embedded systems professionals are a type of computer engineer who deals with the use of computers which are embedded in other systems, such as automobiles, robots, PDAs, etc. Computer science professionals in both areas are distinguished by the high level of theoretical expertise and innovation they apply to complex problems and to the application of new technologies.

The B.A. in **Computer Science** allows students to combine a computing degree with a minor or major in another academic area offering a B.A., for instance English, history, or music. This combination is useful in occupations such as teaching high school.

The B.B.A. in **Computer Information Systems** combines classes in computing and systems management with classes in accounting, economics, and business administration. With a few years experience graduates will be equipped to manage a data processing department in a hospital, business, or industry. The bachelor degree in Computer Information Systems, offered in conjunction with the School of Business and Management, is accredited by the International Assembly for Collegiate Business Education.

The B.S. in **Computer Systems Administration** is designed to prepare

graduates who will administer the complex computer systems and networks now common in the business world. It requires a minimum of programming, mathematics, and business courses, while concentrating on the technical issues needed to administer and support modern network computing systems and software.

## Accreditation

Southern Adventist University has received specialized accreditation for the following computing programs:

- The B.S. in Computer Science program (including both the Computer Science and Embedded Systems concentrations) is accredited by the Computing Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012-telephone: 410.347.7700.
- The B.B.A. in Computer Information Systems program is accredited through the International Assembly for Collegiate Business Education (IACBE), Olathe, KS.

## Admission Requirements

Admission to the School of Computing is required to graduate with a major offered by the School of Computing. Declaration as a major is not the equivalent of acceptance to the School of Computing. Minimum requirements for admission to the School of Computing are:

1. Acceptance to Southern Adventist University.
2. Complete general education: ENGL 101 and ENGL 102.
3. Completion of 6 hours of computer courses required in the major with a grade of “C” or better.
4. Earned overall GPA of 2.25 or better.
5. Earned School of Computing GPA of 2.25 or better.

Students pursuing a major offered by the School of Computing should apply for admission at the end of the freshman year. Transfer students will be considered for admission after completing 6 hours of major courses in residence.

## Graduation Requirements

1. Admission to the School of Computing
2. Overall GPA of 2.25
3. School of Computing GPA 2.25

## School of Computing Probation

If a student’s GPA falls below 2.25 in either the major or overall, the student will be placed on School of Computing probation. If the GPA does not improve to 2.25 by the end of one semester on probation, the student must repeat courses in an effort to increase the GPA. The faculty of the School of Computing must approve each probation student’s course load before the student may register.

## Assessment

In the last semester of the senior year all computing students will be required to take a written two-hour exam. The results of this exam are used by the School's staff to evaluate class offerings as well as program requirements.

## Internship Program

The School of Computing coordinates an internship program that encourages employers to utilize the skills of our students in exciting and productive ways and allows students to take advantage of the opportunities these employers provide. Currently the core of this effort is an innovative program called Meet the Firms, which includes job fair events and Preparing to Meet the Firms, a course that prepares students for finding jobs. Most of the internships are paid summer internships for which the student may also register to receive academic credit.

## Network Usage Policy at Southern Adventist University

Students must comply with the Southern Adventist University Network Usage Policy. A copy of the policy is available from the Campus Card Desk.

## COMPUTER SCIENCE, B.S.

### Required Core

CPHE 200	Digital Logic and Design	<b>4 hours</b>
CPHE 222	Organization, Architecture and Assembly Language	<b>4 hours</b>
CPTR 110	Computational Thinking for the Sciences (I-2b, I-2c)	<b>3 hours</b>
CPTR 124	Fundamentals of Programming (S-3d)	<b>4 hours</b>
CPTR 215	Fundamentals of Software Design	<b>4 hours</b>
CPTR 318	Data Structures and Algorithms	<b>3 hours</b> *
CPTR 365	Operating Systems	<b>3 hours</b>
CPTR 486	Senior Seminar (W)	<b>2 hours</b>
CPTR 488	Senior Project	<b>2 hours</b>

**TOTAL 29 HOURS**

*\*CPTR 318 is recommended in sophomore year*

## COMPUTER SCIENCE CONCENTRATION

### Required Courses

Core **29 hours**

CPTR 209	Introduction to Software Engineering	<b>4 hours</b>
CPTR 319	Database Management Systems	<b>3 hours</b>
CPTR 405	Organization of Programming Languages	<b>3 hours</b>
CPTR Electives (CPHE/CPTR)	(3 hrs must be UD; 4 hrs may be from CPHE)	<b>7 hours</b>

**TOTAL 46 HOURS**

### Required Cognates

MATH 191	Calculus I	<b>4 hours</b>
MATH 192	Calculus II	<b>4 hours</b>
MATH 200	Elementary Linear Algebra	<b>2 hours</b>
MATH 215	Statistics (I-2a)	<b>3 hours</b>
MATH 280	Discrete Mathematical Structures	<b>3 hours</b>

**Select one two-semester science sequence with lab from the following courses:**

BIOL 151	General Biology (I-4a) <b>4 hours</b>
BIOL 152	General Biology (I-4a) <b>4 hours</b>
CHEM 151	General Chemistry (I-4b) <b>4 hours</b>
CHEM 152	General Chemistry (I-4b) <b>4 hours</b>
PHYS 211	General Physics I (I-4d) <b>3 hours</b>
PHYS 212	General Physics II (I-4d) <b>3 hours</b>
PHYS 213	General Physics Laboratory I <b>1 hour</b>
PHYS 214	General Physics Laboratory II <b>1 hour</b>
PHYS 221	University Physics I (I-4d) <b>4 hours</b>
PHYS 222	University Physics II (I-4d) <b>4 hours</b>
PHYS 223	University Physics Laboratory I <b>1 hour</b>
PHYS 224	University Physics Laboratory II <b>1 hour</b>

**Additional Science and Math Courses:**

Take additional approved science and mathematics courses to make a total of at least 30 hours of approved science and mathematics. Approved science courses consist of courses from the above list (the course must include the laboratory), and any upper division BIOL, CHEM, or PHYS course, except BIOL 421 or PHYS 317. Approved mathematics courses consist of MATH 218 and all upper division MATH courses.

**EMBEDDED SYSTEMS CONCENTRATION****Required Courses****Core 29 hours**

CPHE 310	Introduction to Signal Processing <b>4 hours</b>
CPHE 320	Circuit Analysis <b>4 hours</b>
CPHE 380	Microcontroller Design <b>4 hours</b>
CPHE 410	Computer Interfacing <b>4 hours</b>
CPTR/CPHE UD Elective	<b>3 hours</b>

**TOTAL 48 HOURS****Required Cognates**

MATH 191	Calculus I <b>4 hours</b>
MATH 192	Calculus II <b>4 hours</b>
MATH 200	Elementary Linear Algebra <b>2 hours</b>
MATH 215	Statistics (I-2a) <b>3 hours</b>
MATH 280	Discrete Mathematical Structures <b>3 hours</b>
MATH 315	Differential Equations <b>3 hours</b>
PHYS 211	General Physics I (I-4d) <b>3 hours</b>
PHYS 212	General Physics II (I-4d) <b>3 hours</b>
PHYS 213	General Physics Laboratory I <b>1 hour</b>
PHYS 214	General Physics Laboratory II <b>1 hour</b>
or PHYS 221	University Physics I (I-4d) <b>4 hours</b>
PHYS 222	University Physics II (I-4d) <b>4 hours</b>
PHYS 223	University Physics Laboratory I <b>1 hour</b>
PHYS 224	University Physics Laboratory II <b>1 hour</b>

**Select one (1) from the following courses:**

BIOL 151	General Biology (I-4a) <b>4 hours</b>
CHEM 151	General Chemistry (I-4b) <b>4 hours</b>

**TOTAL 46–48 HOURS**

## COMPUTER SYSTEMS ADMINISTRATION, B.S.

### Required Courses

CPIS 443	Software Evaluation <b>3 hours</b>
CPTC 212	Web Programming <b>3 hours</b>
CPTC 230	Windows Administration <b>3 hours</b>
CPTC 254	UNIX Systems Administration <b>3 hours</b>
CPTC 316	Application Software Support <b>3 hours</b>
CPTC 433	Network Administration <b>3 hours</b>
CPTC 440	Programming and Scripting for Administration <b>3 hours</b>
CPTR 110	Computational Thinking for the Sciences (I-2b, I-2c) <b>3 hours</b>
CPTR 124	Fundamentals of Programming (S-3d) <b>4 hours</b>
CPTR 319	Database Management Systems <b>3 hours</b>
CPTR 328	Principles of Networking <b>3 hours</b>
CPTR 427	Network Security <b>3 hours</b>
CPTR 432	Managing and Programming Mobile Applications <b>3 hours</b>
CPTR 486	Senior Seminar (W) <b>2 hours</b>
CPTR 488	Senior Project <b>2 hours</b>
Computer Elective <b>3 hours</b>	
<b>TOTAL 47 HOURS</b>	

### Required Cognates

BUAD 126	Introduction to Business (I-5) <b>3 hours</b>
JOUR 242	Intro to Web Design <b>3 hours</b>
MATH 120	Precalculus Algebra (I-2a) <b>3 hours</b>
MATH 215	Statistics (I-2a) <b>3 hours</b>
PSYC	Any 3 hr Psychology course <b>3 hours</b>

## COMPUTER SCIENCE, B.A.

### Required Courses

CPHE 200	Digital Logic and Design <b>4 hours</b>
CPHE 222	Organization, Architecture and Assembly Language <b>4 hours</b>
CPTR 110	Computational Thinking for the Sciences (I-2b, I-2c) <b>3 hours</b>
CPTR 124	Fundamentals of Programming (S-3d) <b>4 hours</b>
CPTR 215	Fundamentals of Software Design <b>4 hours</b>
CPTR 318	Data Structures and Algorithms <b>3 hours</b>
CPTR 319	Database Management Systems <b>3 hours</b>
CPTR 328	Principles of Networking <b>3 hours</b>
CPTR 365	Operating Systems <b>3 hours</b>
CPTR 486	Senior Seminar (W) <b>2 hours</b>
CPTR 488	Senior Project <b>2 hours</b>
<b>TOTAL 35 HOURS</b>	

### Required Cognates

MATH 120	Precalculus Algebra (I-2a) <b>3 hours</b>
MATH 215	Statistics (I-2a) <b>3 hours</b>
MATH 280	Discrete Mathematical Structures <b>3 hours</b>

### Recommended Electives

CPTR 209	Introduction to Software Engineering <b>4 hours</b>
MATH 191	Calculus I <b>4 hours</b>

## **COMPUTING MINOR**

### **Required Courses**

CPTR 110 Computational Thinking for the Sciences (I-2b, I-2c) **3 hours**

CPTR 124 Fundamentals of Programming (S-3d) **4 hours**

Electives (*A minimum of 6 hrs must be UD*) **11 hours**

**TOTAL 18 HOURS**



# School of Education and Psychology

**Dean:** John McCoy

**Faculty:** Krystal Bishop, Robert Coombs, Ardelle Dickinson, Bonnie Eder, Steven French, Alfredo Fuentes, Ileanna Freeman, Faith Laughlin, Cathy Olson, Cristy Pratt, Stanley Stevenson, Carleton Swafford, Douglas Tilstra, Tron Wilder, Ruth WilliamsMorris

## **Program Directors and Coordinators:**

Liberal Arts K–6 Teacher Education, Krystal Bishop  
Secondary Teacher Education, Faith Laughlin and Cathy Olson  
Clinical Psychology, Ileanna Freeman  
Industrial/Organizational Psychology, Cristy Pratt  
Psychology/Psychobiology, Ruth WilliamsMorris  
Family Studies, Stanley Stevenson  
Outdoor Education, Doug Tilstra (graduate program)  
Counseling, Ileanna Freeman (graduate program)  
Master’s in Education, Bonnie Eder (graduate program)

## **Philosophy and Objectives**

The School of Education and Psychology subscribes to the belief that human beings were created in the image of God, and as a result of disobedience sin has marred their God-given attributes and divine likeness. We believe that the object of education is also the object of redemption—to restore in people the image of their Maker. To this end, we philosophically endorse this statement from the book *Education*: “True education means more than the perusal of a certain course of study. It means more than a preparation for the life that now is. It has to do with the whole being, and the whole period of existence possible to man. It is the harmonious development of the physical, mental, and spiritual powers. It prepares the student for the joy of service in this world and the higher joy of wider service in the world to come.”

Our objectives are to represent Christ in all that we do, to prepare our students for global service, and to present courses and programs of study that encourage students to integrate into their lives Bible-based beliefs and values as understood by the Seventh-day Adventist Church.

## **Statement of Mission**

The mission of the School of Education and Psychology at Southern Adventist University is to prepare effective Christian professionals who demonstrate a commitment to the pursuit of truth, wholeness, and a life of service in a diverse society.

## **Policies**

Students required to perform field or practicum experiences will accept personal responsibility for their learning and professional behavior. Each student contracts to abide by policies of the School of Education and Psychology.

Students will be expected to provide their own transportation for individual field and practicum experiences unless a lab fee has been assessed for cohort-based field experiences.

Education students will be required to provide evidence of having passed a Tennessee Board of Investigation background check prior to entering classrooms. Students admitted to Student Teaching must become familiar with policies outlined in the Student Teaching Handbook.

The School of Education and Psychology reserves the right to revise, add, and withdraw policies and/or courses as necessary to ensure a quality program.

## Graduate Degrees

The School of Education and Psychology offers two Master of Science degrees:

Master of Science in Education (three emphases)

- Instructional Leadership
- Literacy Education
- Outdoor Education (hybrid)

Master of Science in Counseling (two emphases)

- Clinical Mental Health Counseling
- School Counseling

Degree requirements are described in a separate *Graduate Catalog*, available by contacting the School of Education and Psychology.

## Undergraduate Psychology Degrees

Undergraduate programs in psychology are pre-professional in that they are designed to introduce students to a wide knowledge base in the field and to prepare them for further training.

### The Goal

The goal of the undergraduate psychology programs is to prepare students with the knowledge, skills, and dispositions to prepare them for further training and education in specialized fields of psychology. The learning outcomes emanating from this major goal are grouped into two major categories:

- Knowledge, skills, and dispositions consistent with the science and application of psychology, and
- Knowledge, skills, and dispositions consistent with both a Christian and a liberal arts education.

### Conceptual Framework

These outcomes are realized by providing opportunities for psychology students to become effective in the following roles:

- A. A caring person
- B. An informed and passionate learner
- C. A scientific thinker, and
- D. A committed pre-professional.

These then lay the foundation for pre-professional excellence and constitute the core objectives of the undergraduate psychology programs.

## Proficiencies

The conceptual framework incorporates the following proficiencies:

- A. As a caring person, the psychology pre-professional will evidence knowledge, skills and dispositions by:
  - Demonstrating the ideals of compassion and justice, along with the belief that all individuals are created in the image of God and thus have unique, inherent value
  - Recognizing and respecting diversity, and demonstrating personal integrity
  - Considering in decision-making the influence and importance of environment contexts; familial, social, academic, religious, and cultural
  - Advocating and emulating the example of Christ-like service
- B. As an informed and passionate learner, the psychology pre-professional will evidence knowledge, skills, and dispositions by:
  - Demonstrating an awareness of nurturing environments and psychological services and programs
  - Demonstrating understanding of central concepts in the major subfields of psychology
  - Demonstrating understanding of how individuals develop within and across the lifespan
  - Demonstrating understanding of the foundations of psychopathology and mental health and wholeness
  - Using technology appropriately to enhance communication and individual learning
- C. As a scientific thinker, the psychology pre-professional will evidence knowledge, skills, and dispositions by:
  - Demonstrating intellectual curiosity, critical thinking, and strategic decision-making
  - Using theory, based on scientific research, to enhance practice
  - Using the scientific method to pose and answer real-world psychological questions
  - Becoming an informed and critical consumer of scientific research
- D. As a committed pre-professional, the psychology pre-professional will evidence knowledge, skills, and dispositions by:
  - Collaborating with peers and consulting with faculty and other professionals
  - Demonstrating understanding of the legal and ethical responsibilities in the field of psychology
  - Participating in opportunities to achieve excellence and broaden psychological horizons
  - Recognizing the value of health and a commitment to a lifestyle of wellness
  - Demonstrating appropriate communication skills

## Admission to Psychology Programs

1. Admission Requirements: In order to be admitted to an undergraduate program in psychology, a student must meet the following requirements:

- Regular Admission to Southern Adventist University: The student must be admitted to the University under Regular Acceptance.
  - Application and Statement of Intent: The student must complete an application, including a Statement of Intent essay, explaining why he/she chose psychology as a major and serving as a self-assessment of how the student feels he/she meets the core objectives and expected proficiencies of the program's conceptual framework: caring person, informed and passionate learner, scientific thinker, and committed pre-professional.
  - Adviser Recommendation: Submit an SEP-based (Psychology) academic adviser recommendation. The recommendation is to include signed evidence by the adviser and advisee that they have discussed the applicant's academic program.
  - Minimum GPA: The student must meet the program-specific GPA requirement, as follows:
    - For admission to the B.A. program, the minimum GPA required is 2.25. In order to be considered for this program, students must have completed General Psychology with a grade of B- or better.
    - For admission to the B.S. in Industrial/Organizational Psychology, a minimum GPA of 2.75 is required. To be considered for this program, students must have completed PSYC 122 and PSYC 253 with grades of B or better.
    - For admission to the B.S. in Psychobiology, the minimum GPA required is 2.90. In order to be considered for this program, students must have completed General Psychology with a grade of B or better, and General Biology I and II OR Anatomy & Physiology I and II.
    - For admission to the B.S. in Psychology Clinical Concentration, the minimum GPA required is 2.75. In order to be considered for this program, students must have completed General Psychology with a grade of B or better.
2. Admission Timeframe: Admission to the Psychology program must be accomplished following completion of twenty-four (24) academic credit hours and prior to taking upper division (300- or 400-level) psychology courses.

## Program Completion

During their last academic year in the undergraduate program, students are required to write a major position paper and take the Psychology Major Field Test.

- The position paper is a self-assessment of how the student has met the core objectives and expected proficiencies of the program's Conceptual Framework: caring person, informed and passionate learner, scientific thinker, and committed pre-professional. This paper is part of the capstone course, History and Systems of Psychology, and will be read by at least two faculty members.
- The Major Field Test (MFT) in psychology is administered as part of the required experiences of the capstone course, History and Systems of Psychology. The results from the six areas assessed in the Major Field Test will be utilized as benchmarks in the Psychology Unit Plan and Assessment Review.

## Undergraduate Degrees in Teacher Education

The School of Education and Psychology is approved by the Tennessee State Board of Education for the preparation of secondary and elementary teachers.

It is accredited by the Accrediting Association of Seventh-day Adventists Schools, Colleges and Universities. Additionally, the School is accredited by the National Council for Accreditation of Teacher Education (NCATE), [www.ncate.org](http://www.ncate.org). This accreditation by NCATE covers both initial teacher education and the emphases of School Counseling and Literacy Education.

## The Goal

The goal of the professional education unit is to facilitate the comprehensive development of school professionals as servant leaders in their communities.

## Conceptual Framework

This goal is reflected in the conceptual framework, a goal in which we seek to provide opportunities for each candidate to become effective as (a) a caring person, (b) an informed facilitator of learning, (c) a reflective decision maker, (d) a committed professional. These core objectives are reflected through specific proficiencies that lay the foundation of professional excellence.

## Proficiencies

The conceptual framework incorporates the following core objectives and proficiencies:

- A. As a caring person, the candidate/school professional will demonstrate knowledge, skills, and dispositions by:
  - Designing experiences that honor best practices related to multicultural and academic diversity
  - Nurturing relationships by showing warmth, care, respect, and fairness to all individuals
  - Reaching out to families and community agencies
  - Emulating the Christ-centered principles of discipleship and service
- B. As an informed facilitator of learning, the candidate/school professional will demonstrate knowledge, skills, and dispositions by:
  - Providing nurturing environments and services based on developmentally and culturally appropriate practices
  - Knowing the content and conveying the importance of subject matter
  - Developing a repertoire of discipline strategies and procedures that encourage positive learning environments
  - Planning for differentiation and scaffolding to ensure that all students experience success
  - Utilizing technology to enhance student learning and communication
- C. As a Christian reflective decision maker, the candidate/school professional will demonstrate knowledge, skills, and dispositions through:
  - Demonstrating intellectual curiosity, critical thinking, and strategic decision making
  - Planned lessons that incorporate evidence-based practices and appropriate materials
  - Using informal and formal assessment data for instructional planning and evaluation
  - Reflecting on observation, instruction, and assessment through a

Christ-centered world view

- D. As a committed professional, the candidate/school professional will demonstrate knowledge, skills, and dispositions by:
- Collaborating, consulting, and engaging in opportunities to achieve professional excellence
  - Demonstrating professional demeanor, ethical behavior, and carrying out responsibilities conscientiously and punctually
  - Recognizing the value of health and a commitment to a lifestyle of wellness
  - Demonstrating appropriate written and verbal communication skills
  - Studying God’s Word and seeking His will

## Teacher Licensure Programs

Southern Adventist University has approved teacher licensure programs at five levels\*:

K–8	SDA Elementary Education B.A. in Liberal Arts Education Leading to Licensure (K-6 TN)
Pre K–12	B.A. in French B.A. in Spanish Endorsement in English as a Second Language (EESL)
K–12	B.F.A. in Art Education B.Mus. in Music Education B.S. in Physical Education/Health
7–12	B.A. in Biology B.A. in Chemistry B.A. in English B.A. in History/Government B.A. or B.S. in Mathematics B.A. in Physics B.A. in Religious Education
9–12	Minor in Psychology (Leading to Teaching Licensure 9–12, in combination with a history major)

*\*School Counseling licensure is available in a School Counseling Master’s program.*

## Admission Procedures

Admission to Southern Adventist University does not automatically admit the student into teacher education. There are three stages that students must go through to successfully complete the Teacher Education Program prior to student teaching.

### 1. Initial Admission to the Teacher Education Program

Each student accepted at Southern Adventist University who indicated that teaching is his/her professional objective is assigned an educational program adviser by the Records and Advisement Office. The advisers assist in planning a student’s academic program each year and guide their advisees through the

stages of the Teacher Education Program. Advisers and advisees should work closely to follow the professional sequence of courses.

Students assume responsibility for making necessary applications, meeting the requirements, and other relevant deadlines.

**At the time of a student's Initial Admission to the Teacher Education Program (TEP), the current and subsequent catalogs will determine the requirements for completion of the program and graduation. Deviations to this policy will be valid only if mandated by the North American Division and/or the State of Tennessee Department of Education. NOTE: Courses with grades lower than "C-" in the major studies and those required for S.D.A. teaching licensure, or "C" (2.00) in the professional education must be repeated. At admission to student teaching, candidates must have a minimum 3.00 grade point average in the major studies and a minimum 3.00 grade point average in professional education.**

The student must apply for Initial Admission to the Teacher Education Program (usually by the end of the third semester) after completing all requirements as outlined below. Initial admission is required before the student can enroll in most upper division education courses. The following criteria are required for each applicant.

1. Be in residence at the University.
2. Show evidence of professional dispositions at a developing level or higher.
3. In compliance with the Americans with Disabilities Act, students must be, with or without reasonable accommodation (physically and mentally), capable of performing the essential functions of the program).
4. Possess an overall grade point average of 3.00 or above.
5. Successfully complete EDUC 129 Introduction to and Foundations of Elementary Education or EDUC 138 Introduction to and Foundations of Secondary Education and ENGL 101 and ENGL 102 with a grade of C (2.00) or higher.
6. Possess an enhanced ACT/SAT composite or average score of 23 OR have passed all three sections (Reading, Writing, Mathematics) of the Core Academic Skills for Educators test which is the entrance competency test required by the State of Tennessee. The ACT composite or average score of 23 or above will EXEMPT the Core Academic Skills for Educators test. In addition, there is an appeal process for students unable to pass the Core Academic Skills for Educators tests.
7. Submit a formal application.
8. Obtain recommendations from the Vice President of Student Services and the student's academic adviser.
9. Submit an initial admission professional portfolio in electronic format (Live-Text). Minimum score is "developing" or higher.
10. Complete successfully an initial interview with Teacher Education Faculty.
11. Provide evidence of having passed a Tennessee Board of Investigation background check. Disclosure of an offense must be made in writing to the School of Education and Psychology Dean within forty-eight (48) hours after an arrest.

12. Complete sex offender declaration specifying candidate is not a registered sex offender.
13. Provide evidence of active membership in a club relevant to their major.

Applications meeting the above criteria are approved by the Teacher Education Council. The candidate will be informed in writing as to the status of the application for admission following the action of the Teacher Education Council.

## Transfer Students

- Students transferring from another institution and desiring immediate admission to the TEP must provide two recommendations from professors at the institution from which they are transferring.
- Transfer students must present a Professional Development Portfolio that adheres to the TEP guidelines. Transfer students unable to meet the initial admission criteria for portfolios may be accepted to the TEP. As an admission requirement, students will develop the portfolio to meet EDUC 129 or EDUC 138 requirements and have an additional semester to bring the portfolio to Initial Admission requirements. The portfolio must be resubmitted to the corresponding program coordinator.

## Advisement

The primary goal of the advisement process is to orient the teacher candidate with the total teacher education program, with major emphasis on its three components, namely, general education, professional education, and major studies. This is accomplished by the academic adviser as he/she interacts with his/her advisees during advisement sessions.

Secondary majors have an adviser in their major; furthermore, they are expected to seek on-going advisement related to the Teacher Education Program from the Secondary Coordinator and/or the Certification Officer in the School of Education and Psychology.

## Appeal Procedures

Criteria and standards for admission to teach education are explicit, but allow for second chance attempts. Courses may be repeated to raise GPA or candidates may follow the Grievance Procedures found under Academic Policies in the Southern Adventist University *Catalog*. Students seeking admission to the Teacher Education Program who have failed to obtain satisfactory ACT scores (minimum composite or average of 23) on a test administration in college and who have failed one (1) attempt to pass the Core Academic Skills for Educators test may submit an appeal to the Teacher Education Council. **It is recommended that students begin the appeal process in the third (3rd) semester.** Failure to submit an appeal by the end of the fourth (4th) semester will delay program completion by at least one semester. **Submission of an appeal does not guarantee admission to the TEP.** Applicants must demonstrate a commitment to teaching and show evidence of strength in other initial admission criteria (e.g. GPA, leadership, service, interpersonal skills, commitment to teaching profession). To submit an appeal due to an ACT score lower than 23 the student must:

- Have an ACT of 21 or higher.



- Submit documentation of working with Learning Support Services to learn test-taking skills.
- Take the Core Academic Skills for Educators tests as mandated by TN Department of Education.
- Demonstrate proficient dispositions as evaluated by at least three faculty members, one of which must be a professional education faculty member.
- Submit a letter of commitment to teaching.
- Submit two letters of recommendation from previous or current professors.
- Submit one letter of recommendation from a professional who has observed interactions with children and youth.
- Meet all other requirements for initial admission.

A letter of response will be provided to each applicant stating the decision of the Teacher Education Council.

**If the minimum GPA is not met, an appeal should not be submitted.** Candidates admitted by appeal are strongly encouraged to prepare for the Praxis II tests by attending the Praxis review sessions offered each semester.

## 2. Candidacy and Retention in Teacher Education

Retention in the Teacher Education Program is contingent on successful completion of courses attempted and maintenance of the knowledge, skills, and dispositions required for initial admission to the program. If the GPA falls below 3.00 or if a candidate does not demonstrate the dispositions expected of a committed professional an Action Plan for Remediation must be carried out. The steps for this plan include (a) plan developed in collaboration between the candidate and the Professor and/or Teacher Education adviser, (b) approval of the plan granted by the Teacher Education Council, (c) successful implementation of the plan. The results of the plan will be reported to the Teacher Education Council and shared with the student via email. Teacher candidates are expected to maintain consistent personal representation of the standards and objectives of Southern Adventist University and the Teacher Education Program.

## 3. Admission to Student Teaching

The teacher candidate must file a formal application with the faculty of the School of Education and Psychology for admission to student teaching. Application forms may be obtained from the School of Education and Psychology office in Herin Hall. A late application may delay the student teaching experience. Student teaching is regarded as the culminating experience of the Teacher Education Program.

**NOTE: Prior to the professional semester, the candidate must take and pass the PRAXIS II licensure exams—both the appropriate section of the Principles of Learning and Teaching, and the particular specialty test(s) for the licensure area(s). Each candidate must arrange for a Designated Institution Report to be sent by the testing service to Southern Adventist University as evidence of passing scores. All students planning to student teach in the fall semester must successfully pass all required Praxis II exams by the preceding July test date. All students planning to student teach in the winter semester must successfully pass all Praxis II exams by the preceding November test date.**

The following criteria are required for each applicant:

1. Completion of all professional education courses
2. Cumulative minimum GPA of 3.00
3. Major Studies minimum GPA of 3.00
4. Professional Education minimum GPA of 3.00
5. EDUC courses with grades lower than “C” (2.00) must be repeated
6. Courses in the major with grades lower than “C-” must be repeated
7. Courses in the cognate with grades lower than “C-” must be repeated
8. Minimum grade of C- required for religion and health courses specifically required for S.D.A. teaching licensure
9. Evidence of acceptable professional dispositions
10. In compliance with the Americans with Disabilities Act, students must be, with or without reasonable accommodation, (physically and mentally capable of performing the essential functions of the program.)
11. Adherence to standards and objectives of Southern Adventist University and the Teacher Education Program
12. Submission of the following documents at least one semester in advance:
  - Application
  - Recommendation forms (adviser and recent education professor)
13. Passing of all applicable PRAXIS II examinations
14. Completion of a successful student teaching interview
15. Submission of completed Professional Development Portfolio in electronic format (LiveText). Must be at the proficient level or higher
16. Evidence of having passed a fingerprinted Tennessee Board of investigation background check. Disclosure of an offense must be made in writing to the School of Education and Psychology Dean with forty-eight (48) hours after an arrest
17. Evidence of CPR Certification
18. Evidence of First Aid Certification
19. Evidence of membership in a professional organization.

Applicants meeting the above criteria are approved by the Teacher Education Council upon recommendation from the Teacher Education Advisory. The candidate will be informed in writing as to the status of the application for admission following the action of the Teacher Education Council.

In the event that the Teacher Education Council recommends a conditional acceptance, student teachers will be notified of the condition(s). The adviser and student teacher will collaborate in the development of an action plan. Student teachers accepted conditionally will receive additional coaching from the supervisor. Failure to complete the action plan satisfactorily will result in termination of the student teaching placement. The Teacher Education Council will then determine eligibility for continuing student teaching.

Candidates who do not meet all the criteria required to do Student Teaching

may appeal to the Teacher Education Council. Submission of an appeal does not guarantee admission to Student Teaching.

## Teacher Licensure

Licensure and certification are synonymous terms for the process of granting legal authorization to teach in the public or private elementary or secondary schools of a state or of the Seventh-day Adventist Church based on meeting predetermined qualifications. Licensure has been established to give professional status to qualified teachers and to assure school boards and parents that the teacher is well prepared.

### Who can obtain licensure?

Every candidate who successfully completes the requirements for teaching in the elementary or secondary school and graduates will receive recommendation for licensure based upon the following criteria:

1. Successful completion of student teaching assignments
2. Satisfactory completion of all credential requirements
3. Passing scores on the following PRAXIS II Examinations:
  - Principles of Learning and Teaching
  - Appropriate specialty area(s)

**Licensure is not automatic. The eligible candidate must make the necessary application to the Southern Union Conference, and to any other appropriate union conference for denominational certification; and to the State of Tennessee and to any other specific state department of education where the candidate expects to teach.** Information regarding licensure is available from the Southern Adventist University certification officer. Since teacher licensure regulations are always in the process of change, graduating teacher education candidates are urged to make their applications for licensure as soon as possible.

### What certificates may be obtained?

1. Initial Certificate (Tennessee)
 

A license is issued on the basis of a minimum of a Bachelor's Degree with a major in at least one subject teaching field and the completion of an approved teacher education program. Passing scores on the following PRAXIS II Examinations: (1) Principles of Learning and Teaching, and (2) appropriate specialty area(s) must be obtained.
2. Basic Certificate (SDA denominational)
 

This denominational certificate is issued on the basis of completing the following courses in addition to the required professional education and other EDUC courses. A minimum grade of "C-" is required in these:

HLED 173	Health for Life (P-2) <b>2 hours</b>
RELB/RELT	Biblical Studies/Theological Studies <b>3 hours</b>
REL	Upper division religion elective <b>3 hours</b>
RELT 138	Adventist Heritage (R-2) <b>3 hours</b>
RELT 255	Christian Beliefs (R-2) <b>3 hours</b>
or RELT 484	Christian Theology I (R-4) <b>3 hours</b> and RELT 485 Christian Theology II (W) (R-4) <b>3 hours</b>

## Requirements for Licensure

Candidates for state licensure must complete the appropriate teacher preparation curriculum. This consists of three components: general education, professional education, and major studies.

### 1. General Education:

This component represents that portion of the total teacher education program designed to foster the development of those competencies that are basic to all life's responsibilities and provide intellectual foundation in the liberal arts. Students pursuing a teacher education curriculum must work closely with their advisers for guidance in the selection of general education courses that are appropriate to their individual needs. Relevant courses are listed in this *Catalog* under the five main areas of the General Education requirements.

### 2. Professional Education:

**Elementary:** The elementary program with the degree requirements is listed here.

**Secondary:** The following courses are required for secondary teaching licensure. Students must include one literature class and one mathematics course in their program each at the 100 level or above. The mathematics requirement may be waived by students with an ACT score in math of 22 or above. In order to be eligible for licensure, candidates must have a minimum grade point average of 2.75 in the major, professional education, and cumulative areas.

EDUC 138 Introduction to and Foundations of Secondary Education **3 hours**

EDUC 220 Growth Years (S-2) **3 hours**

or PSYC 128 Developmental Psychology (S-2) **3 hours**

EDUC 319 Technology in Education (I-2b, I-2c) **3 hours**

EDUC 338 Foundations of Inclusive Education (SERV-2) **3 hours**

EDUC 341 General Methods and Assessment **3 hours**

EDUC 342 Curriculum and Content Methods **2 hours**

EDUC 343 Learning Theories and Classroom Management **3 hours**

EDUC 419 Philosophy and Leadership in Christian Education (W) (SERV-2) **3**

#### hours

EDUC 434 Reading and Writing in the Content Areas **2 hours**

EDUC 464 Teaching Seminar **2 hours**

EDUC 472 Enhanced Student Teaching 7–12 (SERV-2) **10 hours**

or EDUC 473 Enhanced Student Teaching K–12 (SERV-2) **10 hours**

**TOTAL 37 HOURS**

*\*Art, music, and physical education majors must enroll in EDUC 473*

*NOTE: Art, music, and physical education majors should consult the Catalog sections corresponding to their major for professional education requirements.*

### 3. Major Studies:

Major studies requirements: Preparation for teaching in the elementary school requires a B.A. in Liberal Arts Education leading to licensure K8 SDA (K-6 TN) or its equivalent.

The following departments/schools offer majors that can be combined with professional education courses resulting in licensure to teach:

Art

Modern Languages (French and Spanish)

Biology	Music
Chemistry	Physical Education
English	Physics
History/Government	Religion
Mathematics	

Students are to complete the degree requirements as specified by their chosen majors plus the professional education courses as listed above.

1. Additional Endorsements:

For licensure, a major is not always required for additional endorsements. A minor may be acceptable in some disciplines as a second field endorsement area. Candidates should contact the Certification Officer in the School of Education and Psychology for information on specific requirements in the area(s) of endorsement sought.

Individuals meeting requirements for secondary licensure who wish to be licensed for elementary or individuals meeting the requirements for elementary education licensure who wish to be licensed/endorsed in one or more secondary areas must meet with the Certification Officer to work out an individualized course of study that meets State of Tennessee and/or Seventh-day Adventist guidelines for teaching licensure.

2. Miscellaneous Information Relative to Teacher Training:

Because of time commitments during the student teaching experience, it is expected that any candidate entering student teaching will not be enrolled in additional classes without approval of the Teacher Education Council.

Correspondence credit will be accepted to the extent of twenty-five percent of the credit required for the certificate provided that no more than four semester hours in education are applied on the professional education requirement. If personal circumstances demand a correspondence course, a petition must be filed with the School of Education and Psychology and its approval obtained before registering for the course. The course must be completed and the grade filed in the Records and Advisement Office before student teaching is begun.

### **Catalog Applicability**

At the time of an individual's Initial Admission to the Teacher Education Program, the current and subsequent catalogs will determine the requirements for completion of the program and graduation. Candidates must meet any and all such additional requirements mandated by the NAD, NCATE, or the State of Tennessee Department of Education, even though such changes may not be listed in the Teacher Education programs in the particular catalog under which the candidate entered. Candidates should stay in contact with the School of Education and Psychology to be aware of any changes that may affect them.

### **FAMILY STUDIES, B.S.**

The Family Studies degree is interdisciplinary in nature and combines various dimensions of the social sciences along with a strong liberal arts foundation to gain an understanding of individuals and families. The major is for those students wishing to prepare for graduate study in community and/or family

counseling, law, personnel work, sociology of the family, or family life education.

### Required Courses

FMST 201	Parenting (S-2) (SERV-2) <b>3 hours</b>
FMST 225	Marriage and Family (S-2) <b>3 hours</b>
FMST 233	Human Sexuality (S-2) <b>3 hours</b>
FMST 349	Aging and Society (S-2) (W) (SERV-2) <b>3 hours</b>
FMST 360	Family Life Education (S-2) <b>3 hours</b>
FMST 365	Family Relations (S-2) <b>3 hours</b>
FMST 405	Sexual Abuse and Awareness Prevention <b>1-3 hours</b> (3 hours required)
FMST 491	Family Studies Practicum <b>1-3 hours</b> (3 hours required)
PSYC 122	General Psychology (S-2) <b>3 hours</b>
PSYC 128	Developmental Psychology (S-2) <b>3 hours</b>
PSYC 315	Abnormal Psychology <b>3 hours</b>
SOCI 125	Introduction to Sociology (S-2) <b>3 hours</b>
SOCW 211	Introduction to Social Work <b>3 hours</b>
SOCW 497	Research Methods (W) <b>3 hours</b>
<b>TOTAL 42 HOURS</b>	

### Required Cognates

MATH 215	Statistics (I-2a) <b>3 hours</b>
Area I-4a	Biology <b>3 hours</b>

## PSYCHOLOGY, CLINICAL CONCENTRATION, B.S.

This B.S. degree is recommended for students interested in becoming clinicians, practitioners, and therapists and who wish to gain admission into graduate programs in counseling or clinical psychology. The program is specifically designed for students are interested in pursuing the M.S. degree in Clinical Mental Health Counseling or School Counseling.

Psychology	56
Cognates	12–13

### Required Courses

PSYC 100	Careers in Psychology (SERV-2) <b>1 hour</b>
PSYC 122	General Psychology (S-2) <b>3 hours</b>
PSYC 128	Developmental Psychology (S-2) <b>3 hours</b>
PSYC 224	Social Psychology (S-2) <b>3 hours</b>
PSYC 227	Cognitive Psychology <b>3 hours</b>
PSYC 231	Multicultural Relations (I-3b) <b>3 hours</b>
PSYC 297	Research Design and Statistics I <b>3 hours</b>
PSYC 315	Abnormal Psychology <b>3 hours</b>
PSYC 346	Introduction to Personality Theories <b>3 hours</b>
PSYC 357	Psychological Testing <b>3 hours</b>
PSYC 377	Fundamentals of Counseling <b>3 hours</b>
PSYC 416	History and Systems of Psychology (W) <b>3 hours</b>
PSYC 460	Group Processes <b>3 hours</b>
PSYC 479	Family Counseling <b>3 hours</b>
PSYC 490	Psychology Seminar <b>1 hour</b>
PSYC 491	Psychology Practicum <b>1-3 hours</b> (2 hours required) *
PSYC 498	Research Design and Statistics II (W) <b>4 hours</b>

**Select three (3) hours from the following:**

- PSYC 233 Human Sexuality (S-2) **3 hours**  
 PSYC 349 Aging and Society (S-2) (W) (SERV-2) **3 hours**

**Select six (6) hours from the following:**

- PSYC 390 Health Psychology **3 hours**  
 PSYC 422 Issues in Adolescence **3 hours**  
 PSYC 455 Psychology of Emerging Adulthood **3 hours**

*\*Start in the junior year*

**TOTAL 56 HOURS****Required Cognates**

- BIOL 421 Issues in Science and Society (I-4a) (W) **3 hours**  
 RELT 373 Christian Ethics (R-4) **3 hours**  
 MATH One math course (MATH 111 or higher) **3 hours**  
 Science course with lab **3–4 hours**

**PSYCHOLOGY, INDUSTRIAL/ORGANIZATIONAL CONCENTRATION, B.S.**

This B.S. degree is recommended for students planning to gain admission into graduate programs in industrial/organizational psychology. The degree program is general enough to allow entrance into several other areas of psychology at the graduate level, or to consider moving into the more applied aspects of psychology, such as human resource management, organizational behavior, or business related fields. Six hours of foreign language is required for the B.S. in Industrial/Organizational Psychology. Spanish is encouraged. Industrial/Organizational Psychology students should avail themselves of advisement in both psychology and business.

Psychology	41
Business	18
Cognates	18–19

**Required Courses****Psychology**

- PSYC 100 Careers in Psychology (SERV-2) **1 hour**  
 PSYC 122 General Psychology (S-2) **3 hours**  
 PSYC 224 Social Psychology (S-2) **3 hours**  
 PSYC 227 Cognitive Psychology **3 hours**  
 PSYC 231 Multicultural Relations (I-3b) **3 hours**  
 PSYC 253 Industrial/Organizational Psychology **3 hours**  
 PSYC 297 Research Design and Statistics I **3 hours**  
 PSYC 315 Abnormal Psychology **3 hours**  
 PSYC 346 Introduction to Personality Theories **3 hours**  
 PSYC 357 Psychological Testing **3 hours**  
 PSYC 416 History and Systems of Psychology (W) **3 hours**  
 PSYC 460 Group Processes **3 hours**  
 PSYC 490 Psychology Seminar **1 hour**  
 PSYC 491 Psychology Practicum **1–3 hours** (2 hours required) \*  
 PSYC 498 Research Design and Statistics II (W) **4 hours**

**TOTAL 41 HOURS**

**Business and Management**

BMKT 327	Consumer Behavior <b>3 hours</b> **
BUAD 358	Ethical, Social, and Legal Environment of Business (W) <b>3 hours</b>
ECON 213	Survey of Economics (I-5) <b>3 hours</b>
MGNT 334	Principles of Management <b>3 hours</b>
MGNT 344	Human Resource Management <b>3 hours</b>
MGNT 420	Organizational Behavior <b>3 hours</b>

**TOTAL 18 HOURS****TOTAL 59 HOURS**

*\*Practicum for this degree would be particularly geared towards a placement that matches the major (i.e. in an I/O or HR area). It should be started in the junior year.*

*\*\*BMKT 327 Consumer Behavior, stipulates BMKT 326 Principles of Marketing, as prerequisite. Completion of this prerequisite as an elective or permission of instructor would be required to take this course.*

**Required Cognates**

BIOL 421	Issues in Science and Society (I-4a) (W) <b>3 hours</b>
RELT 373	Christian Ethics (R-4) <b>3 hours</b>
MATH	One math course (MATH 111 or higher) <b>3 hours</b>
	Science Course with Lab <b>3–4 hours</b>
	Foreign Language (Spanish is encouraged) <b>6 hours</b>

**PSYCHOLOGY, PSYCHOBIOLOGY CONCENTRATION, B.S.**

Students should avail themselves of advisement in both psychology and biology

This B.S. degree is recommended for students planning to gain admission into graduate programs in specific areas of psychology such as neuroscience, and in related professions such as behavioral medicine, behavioral ecology, genetic counseling, health psychology, and clinical psychology. This degree may also be desirable for those students planning for medical careers. Psychobiology students are encouraged to receive advisement in both psychology and biology.

Psychology	39
Biology	21–23
Cognates	17

**Required Courses—Psychology**

PSYC 100	Careers in Psychology (SERV-2) <b>1 hour</b>
PSYC 122	General Psychology (S-2) <b>3 hours</b>
PSYC 227	Cognitive Psychology <b>3 hours</b>
PSYC 297	Research Design and Statistics I <b>3 hours</b>
PSYC 326	Physiological Psychology <b>3 hours</b>
PSYC 384	Experimental Psychology <b>3 hours</b>
PSYC 387	Comparative Psychology <b>3 hours</b>
PSYC 390	Health Psychology <b>3 hours</b>
PSYC 416	History and Systems of Psychology (W) <b>3 hours</b>
PSYC 490	Psychology Seminar <b>1 hour</b>
PSYC 498	Research Design and Statistics II (W) <b>4 hours</b>
	Psychology Electives <b>3 hours</b>



**Select three (3) hours from the following:**

- PSYC 128 Developmental Psychology (S-2) **3 hours**  
 PSYC 349 Aging and Society (S-2) (W) (SERV-2) **3 hours**  
 PSYC 422 Issues in Adolescence **3 hours**

**Select three (3) hours from the following:**

- PSYC 224 Social Psychology (S-2) **3 hours**  
 PSYC 315 Abnormal Psychology **3 hours**  
 PSYC 346 Introduction to Personality Theories **3 hours**

**TOTAL 39 HOURS****Biology**

- BIOL 151 General Biology (I-4a) **4 hours**  
 BIOL 152 General Biology (I-4a) **4 hours**  
 BIOL 311 Genetics **4 hours**

**Select one of the following course sequences:**

- BIOL 101 Anatomy and Physiology (I-4a) **4 hours**  
 BIOL 102 Anatomy and Physiology (I-4a) **4 hours**  
 or BIOL 416 Human Anatomy **3 hours**  
 BIOL 418 Animal Physiology **3 hours**

**Select three (3) hours from the following:**

- BIOL 313 Developmental Biology **3 hours**  
 BIOL 340 Immunology **3 hours**  
 BIOL 412 Cell and Molecular Biology **4 hours**  
 BIOL 417 Animal Histology **3 hours**

**TOTAL 21–23 HOURS****Required Cognates**

- CHEM 151 General Chemistry (I-4b) **4 hours**  
 CHEM 152 General Chemistry (I-4b) **4 hours**  
 HMNT 210 Introduction to Philosophy (I-3a) **3 hours**  
 MATH One MATH course (MATH 120 or higher) **3 hours**  
 RELT 421 Issues in Science and Society (W) (R-4) **3 hours**

**TOTAL 60–62 HOURS****LIBERAL ARTS EDUCATION, B.A.****Leading to Licensure K–8 SDA, K–6 TN**

Meets K–8 standards for Seventh-day Adventist teaching licensure and K–6 standards for State of Tennessee teaching licensure.

Major	47
General Education	36–42
Professional Education	<u>45</u>
<b>TOTAL</b>	<b>128–134</b>

**Required Courses**

- BIOL 103 Principles of Biology (I-4a) **3 hours**  
 CHEM Any CHEM course **3 hours**  
 EDUC 232 Survey of Children's Literature **2 hours**  
 EDUC 302 English as a Second Language: Strategies and Methods **3 hours**

EDUC 319	Technology in Education (I-2b, I-2c) <b>3 hours</b>
EDUC 322	Educational Research and Statistics (W) <b>3 hours</b>
EDUC 419	Philosophy and Leadership in Christian Education (W) (SERV-2) <b>3 hours</b>
ELIT	Literature Elective <b>3 hours</b>
GEOG 204	World Geography (I-3b) (SERV-2) <b>3 hours</b>
HIST 356	Natives and Strangers (I-3a) (W) <b>3 hours</b>
HIST/PLSC, ENGL/EESL, MATH, Science Emphasis Elective,	<b>6 hours</b>
MATH 111	Survey of Mathematics (I-2a) <b>3 hours</b>
MATH 116	College Algebra (I-2a) <b>3 hours</b>
PHYS/ERSC elective (I-4 c/d)	<b>3 hours</b>
HIST 154	American History and Institutions I (I-3a) <b>3 hours</b>
or HIST 155	American History and Institutions II (I-3a) <b>3 hours</b>
or PLSC 254	American National and State Government (I-3b) <b>3 hours</b>
or HIST 174	World Civilizations I (I-3a) <b>3 hours</b>
or HIST 175	World Civilizations II (I-3a) <b>3 hours</b>

**TOTAL 47 HOURS**

**Professional Education**

EDUC 129	Introduction to and Foundations of Elementary Education <b>3 hours</b>
EDUC 238	K-6 Bible Methods <b>3 hours</b>
EDUC 303	Professional Seminar <b>1 hour</b>
EDUC 324	K-6 Language Arts Methods <b>3 hours</b>
EDUC 326	K-6 Reading Methods <b>3 hours</b>
EDUC 327	K-6 Mathematics Methods <b>3 hours</b>
EDUC 328	K-6 Science and Health Methods <b>3 hours</b>
EDUC 329	K-6 Social Studies Methods <b>3 hours</b>
EDUC 331	Educational Theory and Assessment <b>3 hours</b>
EDUC 338	Foundations of Inclusive Education (SERV-2) <b>3 hours</b>
EDUC 350	Web-based K-6 Unit Planning <b>1 hour</b>
EDUC 421	Behavior Management – Elementary <b>2 hours</b>
EDUC 464	Teaching Seminar <b>2 hours</b>
EDUC 471	Enhanced Student Teaching K-6 (SERV-2) <b>10 hours</b>
EDUC 320	Literacy in the Primary Grades <b>2 hours</b>
or EDUC 442	Assessing and Remediating Reading Difficulties <b>2 hours</b>

**TOTAL 45 HOURS**

**Required General Education**

**Area R**

RELB 125	Life and Teachings of Jesus (R-1) <b>3 hours</b>
or RELT 177	Christian Spirituality (R-1) <b>3 hours</b>
RELT 138	Adventist Heritage (R-2) <b>3 hours</b>
RELT 255	Christian Beliefs (R-2) <b>3 hours</b>

UD RELB **3 hours**

**TOTAL 12 HOURS**

**Area I-1a**

(A-2, A-4 included in major)

ENGL 101	College Composition I (I-1a) <b>3 hours</b>
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**TOTAL 3 HOURS**

**Area I-1b**ENGL 102 College Composition 2 (I-1b) **3 hours****TOTAL 3 HOURS****Area I-1c**COMM 135 Introduction to Public Speaking (I-1c) **3 hours****TOTAL 3 HOURS****Area I-3c**

Foreign Language (or 2 yrs. in high school)

**TOTAL 0–6 HOURS****Area I-5**BUAD 128 Personal Finance (I-5) **3 hours**or ECON 213 Survey of Economics (I-5) **3 hours**or ECON 224 Principles of Macroeconomics (I-5) **3 hours****TOTAL 3 HOURS****Area S-1**NOND 101 Southern Connections (S-1) **1 hour****TOTAL 1 HOUR****Area S-2**EDUC 220 Growth Years (S-2) **3 hours**or PSYC 128 Developmental Psychology (S-2) **3 hours****TOTAL 3 HOURS****Area S-3b**ART 230 Introduction to Art Experiences **2 hours**or MUED 231 Music and Movement: A Sequential Approach **2 hours****TOTAL 2 HOURS****Area P-1a**PEAC 125 Fitness for Collegiate Life (P-1a) **1 hour****TOTAL 1 HOUR****Area P-1b**ADAC/OLAC/PEAC Course **2 hours****TOTAL 2 HOURS****Area P-1c**PEAC 425 Fit for Hire (P-1c) **1 hour****TOTAL 1 HOUR****Area P-2**HLED 173 Health for Life (P-2) **2 hours****TOTAL 2 HOURS****TOTAL 36–42 HOURS****Non-Licensure Track**

Students not seeking teaching licensure must complete the liberal arts

education major and cognate requirements, as well as Southern Adventist University's general degree requirements for the baccalaureate degree as listed under "Academic Policies," including:

- A minimum of 124 semester hours with a resident and cumulative grade point average of 2.50 or above.
- A minimum of 40 hours of upper division credit, to include at least 14 upper division hours in the major for a B.A. degree.
- Completion of the major and a minor (two majors accepted) for a B.A. degree with a cumulative grade point average of 2.50 in the major and cognate courses, completion of the General Education requirements, and electives to satisfy the total credit requirements for graduation.
- Students in this major must choose a minor or second major in an area other than education.

**TOTAL 44 HOURS**

## **ENGLISH AS A SECOND LANGUAGE TEACHING ENDORSEMENT**

Initial/Add-on program (leading to English as a Second Language teaching licensure)\*

Many applicants have completed one or more of these courses (or similar content) as part of an undergraduate curriculum. Through evaluation of transcripts, it can be determined what coursework may be applied toward the requirements for the ESL endorsement. Add-on licensure is available to candidates who have already received a teaching license in another area.

It is expected that candidates wishing this endorsement as part of their initial teaching license will complete all the major and professional education courses required for their major with teaching licensure/certification in addition to the course requirements listed below. Majors in which teaching licensure is available include B.F.A. in Art Education, B.Mus. in Music Education, B.S. in Physical Education/Health, B.A. in Biology; B.A. in Chemistry; B.A. in English; B.A. in History; B.A. in Liberal Arts Education, B.A. or B.S. in Mathematics, B.A. in Physics, B.A. in Religious Education, B.A. in French, B.A. in Spanish.

In addition, candidates wishing this endorsement as part of their initial teaching license must have had the experience of learning a world language equivalent to at least six semester hours of college level language study. This experience may include, but is not limited to: completion of intensive language training by the Peace Corps or passing the Praxis II subject assessment in a second language.

### **Required Courses**

EDUC 301	English as a Second Language: Issues and Trends	<b>3 hours</b>
EDUC 302	English as a Second Language: Strategies and Methods	<b>3 hours</b>
EDUC 476	Practicum: English as a Second Language*	<b>1 hour</b>

### **Select one three (3) hour English course: 3 hours**

ENGL 304	Grammar and Linguistics for Elementary Teachers
ENGL 316	Modern English Grammar and Linguistics

### **Select two reading courses: 4—hours**

EDUC 320	Literacy in the Primary Grades	<b>2 hours</b>
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EDUC 326	K-6 Reading Methods <b>3 hours</b>
EDUC 434	Reading and Writing in the Content Areas <b>2 hours</b>
EDUC 442	Assessing and Remediating Reading Difficulties <b>2 hours</b>

**Select one three (3) hour diversity course: 3 hours**

COMM 330	Intercultural Communication (I-3b) (W)
HIST 356/SOCI 356	Natives and Strangers (SOCI I-3a) (W)
SOCI 150/SOCW 150	Cultural Anthropology (I-3b) (S-2)

**TOTAL HOURS: 17-18**

\*The practicum may be waived if the candidate has a minimum of one semester of appropriately supervised experience teaching ESL in an accredited school (documented by verification from the school or school system of the teaching assignment, duration, and effectiveness) or previous experience teaching in an ESL setting other than an accredited one. This option requires documentation of experience with both PreK-6 and 7-12 students, including setting, schedule, content, demographic information about students and other pertinent information. Supporting materials, such as lesson plans, units, and newsletters, verification of success (letters from supervisors, copies of evaluations) also should be included.

## PSYCHOLOGY, B.A.

The B.A. degree in psychology is recommended for students who wish to become psychologists and are planning to gain admission into graduate programs. In addition, this degree is recommended for students who desire to combine psychology with another academic discipline.

Major	35
Cognates	12-13
Minor	18

### Required Courses

PSYC 100	Careers in Psychology (SERV-2) <b>1 hour</b>
PSYC 122	General Psychology (S-2) <b>3 hours</b>
PSYC 128	Developmental Psychology (S-2) <b>3 hours</b>
PSYC 224	Social Psychology (S-2) <b>3 hours</b>
PSYC 227	Cognitive Psychology <b>3 hours</b>
PSYC 297	Research Design and Statistics I <b>3 hours</b>
PSYC 315	Abnormal Psychology <b>3 hours</b>
PSYC 346	Introduction to Personality Theories <b>3 hours</b>
PSYC 357	Psychological Testing <b>3 hours</b>
PSYC 416	History and Systems of Psychology (W) <b>3 hours</b>
PSYC 490	Psychology Seminar <b>1 hour</b>
PSYC 491	Psychology Practicum <b>1-3 hours</b> (2 hours required)*
PSYC 498	Research Design and Statistics II (W) <b>4 hours</b>

\*Start in the junior year

**TOTAL 35 HOURS**

### Required Cognates

BIOL 421	Issues in Science and Society (I-4a) (W) <b>3 hours</b>
RELT 373	Christian Ethics (R-4) <b>3 hours</b>
MATH	One math course (MATH 111 or higher) <b>3 hours</b>
	Science course with lab <b>3-4 hours</b>

## EDUCATION MINOR

This minor does not lead to either elementary or secondary licensure, both of which require a baccalaureate degree and completion of professional education courses for licensure. See the Requirements for Licensure. Due to the fact that the Liberal Arts major (non-licensure) includes fourteen (14) EDUC hours, it is deemed necessary for students in that major to choose a minor in an area other than education.

### Required Courses

EDUC 220	Growth Years (S-2) <b>3 hours</b>
EDUC 319	Technology in Education (I-2b, I-2c) <b>3 hours</b>
EDUC 338	Foundations of Inclusive Education (SERV-2) <b>3 hours</b>
EDUC 341	General Methods and Assessment <b>3 hours</b>
EDUC 419	Philosophy and Leadership in Christian Education (W) (SERV-2) <b>3 hours</b>
EDUC 434	Reading and Writing in the Content Areas <b>2 hours</b>
EDUC 129	Introduction to and Foundations of Elementary Education <b>3 hours</b>
or EDUC 138	Introduction to and Foundations of Secondary Education <b>3 hours</b>
<b>TOTAL 20 HOURS</b>	

## FAMILY STUDIES MINOR

### Required Courses

FMST 201	Parenting (S-2) (SERV-2) <b>3 hours</b>
FMST 225	Marriage and Family (S-2) <b>3 hours</b>
FMST 233	Human Sexuality (S-2) <b>3 hours</b>
FMST 365	Family Relations (S-2) <b>3 hours</b>

### Select eight (8) hours from following:

FMST 349	Aging and Society (S-2) (W) (SERV-2) <b>3 hours</b>
FMST 360	Family Life Education (S-2) <b>3 hours</b>
PSYC 128	Developmental Psychology (S-2) <b>3 hours</b>
PSYC 422	Issues in Adolescence <b>3 hours</b>
PSYC 479	Family Counseling <b>3 hours</b>
<b>TOTAL 20 HOURS</b>	

## INDUSTRIAL/ORGANIZATIONAL PSYCHOLOGY MINOR

### Required Courses

MGNT 334	Principles of Management <b>3 hours</b>
MGNT 344	Human Resource Management <b>3 hours</b>
MGNT 420	Organizational Behavior <b>3 hours</b>
PSYC 224	Social Psychology (S-2) <b>3 hours</b>
PSYC 253	Industrial/Organizational Psychology <b>3 hours</b>
PSYC 297	Research Design and Statistics I <b>3 hours</b>
PSYC 357	Psychological Testing <b>3 hours</b>
<b>TOTAL 21 HOURS</b>	

### Strongly Recommended

ECON 213	Survey of Economics (I-5) <b>3 hours</b> (or equivalent)
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## **PSYCHOLOGY (LEADING TO TEACHING LICENSURE IN PSYCHOLOGY 9–12) MINOR**

Students should apply for admission to Teacher Education and take all professional education classes required for secondary certification (see School of Education and Psychology). Must be combined with a history major.

### **Required Courses**

PSYC 122	General Psychology (S-2) <b>3 hours</b>
PSYC 128	Developmental Psychology (S-2) <b>3 hours *</b>
PSYC 227	Cognitive Psychology <b>3 hours</b>
PSYC 231	Multicultural Relations (I-3b) <b>3 hours</b>
PSYC 315	Abnormal Psychology <b>3 hours</b>
PSYC 416	History and Systems of Psychology (W) <b>3 hours</b>

### **Select three (3) hours from the following:**

EDUC 322	Educational Research and Statistics (W) <b>3 hours</b>
PSYC 297	Research Design and Statistics I <b>3 hours</b>

**TOTAL 21 HOURS**

*\*Part of professional education coursework*

## **PSYCHOLOGY MINOR**

### **Required Courses**

PSYC 100	Careers in Psychology (SERV-2) <b>1 hour</b>
PSYC 122	General Psychology (S-2) <b>3 hours</b>
PSYC 128	Developmental Psychology (S-2) <b>3 hours</b>
PSYC 297	Research Design and Statistics I <b>3 hours</b>
PSYC	Electives (6 hrs must be UD) <b>9 hours</b>

**TOTAL 19 HOURS**

# English

**Chair:** Keely Tary

**Faculty:** Rachel Byrd, Kathy Goddard, Amanda Livanos, Dennis Negron, Clarise Nixon, Jodi Ruf, Marcus Sheffield, Laurie Stankavich, Autumn Wurstle

**Composition Coordinator:** Kathy Goddard

The English Department offers two categories of courses that view humanity's search for truth and its most convincing expression through a Christian perspective. Language courses aid students in developing ease, confidence, and competence in the art of effective communication and in acquiring knowledge of the science of language; literature courses develop the ability to discern and appreciate the best literary works.

Students wishing to major in English must apply to the department by taking ENGL 150 through their advisers during the second semester of their freshman year at the earliest, or at the time of transfer, for any student transferring from another major or university. A minimum grade of B- is required in ENGL 101, ENGL 102, and ELIT 216. A prospective English major whose score on the departmental grammar test is below 70% must pass ENGL 132 with at least a B. English majors must maintain a 2.50 overall average in ENGL and ELIT courses.

Students majoring or minoring in English must meet the specific requirements of the English Department (below) and the General Education program. For the English major, intermediate foreign language is required. ENGL 101, ENGL 102, and ENGL 132 do not count toward an English major or minor.

## Mission Statement

The mission of the English Department is to provide general education students with basic communication and literary analysis skills in a Christian context and to prepare English majors for graduate school and/or the job market.

## Transfer Credit for English Majors and Minors

English majors and minors are required to take ELIT 214 Survey of American Literature (S-3a) and ELIT 215 Survey of English Literature (S-3a) in residence. Exceptions must be petitioned through the department.

## Assessment

As a requirement for graduation and as part of a departmental assessment process, senior English majors take the Major Field Test, Literature as part of ELIT 490 Senior Capstone, which includes preparation for the Major Field Test for Literature in English, student writings to be assessed, and an oral interview. Majors complete a written evaluation of the department, providing information used to improve the quality of the department.

## ENGLISH LICENSURE 7-12, B.A.

### Required Courses

ELIT 214	Survey of American Literature (S-3a) <b>3 hours</b>
ELIT 215	Survey of English Literature (S-3a) <b>3 hours</b>



ELIT 216	Approaches to Literature (S-3a) <b>3 hours</b>
ELIT 430	Library Materials for Young Adults <b>2 hours</b>
ELIT 445	Ancient Classics (S-3a) (W) <b>3 hours</b>
ELIT 460	Senior Research Project in English <b>1 hour</b>
ELIT 463	Literary Criticism <b>3 hours</b>
ELIT 490	Senior Capstone <b>1 hour</b>
ENGL 150	English Major Qualification <b>0 hours</b>
ENGL 316	Modern English Grammar and Linguistics <b>3 hours</b>
ENGL 313	Expository Writing (S-3c) (W) <b>3 hours</b>
or ENGL 314	Creative Writing (S-3c) (W) <b>3 hours</b>

**Select nine (9) hours from the following:**

ELIT 323	Nineteenth-Century American Literature (S-3a) (W) <b>3 hours</b>
ELIT 332	Studies in Medieval Literature (S-3a) (W) <b>3 hours</b>
ELIT 333	Studies in Renaissance Literature (S-3a) (W) <b>3 hours</b>
ELIT 335	Biblical Literature (S-3) (W) <b>3 hours</b>
ELIT 337	Nineteenth-Century British Literature (S-3a) (W) <b>3 hours</b>
ELIT 338	Twentieth-Century Writers (S-3a) (W) <b>3 hours</b>
ELIT 368	Studies in Milton (S-3a) (W) <b>3 hours</b>
ELIT 417	World Literature in Translation (S-3a) (W) <b>3 hours</b>
ELIT 425	Literature of the South (S-3a) (W) <b>3 hours</b>
ELIT 442	Shakespeare (S-3a) (W) <b>3 hours</b>
ELIT 444	Restoration and Eighteenth-Century Literature (S-3a) (W) <b>3 hours</b>
ENGL 313	Expository Writing (S-3c) (W) <b>3 hours</b>
or ENGL 314	Creative Writing (S-3c) (W) <b>3 hours</b>
ENGL 491	English Practicum <b>1-3 hours</b>
or ENGL 492	English Internship <b>3 hours</b>

**TOTAL 34 HOURS**

English majors may substitute a journalism writing class or English topics course for one English elective. English majors who minor in journalism or public relations are eligible for internships through the School of Journalism and Communication.

A student planning to obtain a secondary teacher certification will need to include the required professional education courses and additional General Education requirements in their program as outlined in the School of Education and Psychology section of this *Catalog*.

The student must apply for Initial Admission to the Teacher Education Program (usually by the end of the sophomore year) after completing all requirements as outlined under ADMISSION PROCEDURES in the School of Education and Psychology section of the *Catalog*. Initial admission is required before the student can enroll in upper division education courses.

The student must also complete an application and all other requirements for Admission to Student Teaching. Prior to student teaching, the student must take and pass the PRAXIS II licensure exam—both the appropriate section of the Principles of Learning and Teaching, and the particular specialty test(s) for the licensure area(s).

**Required Cognates**

HMNT 205	Arts and Ideas (S-3b) <b>3 hours</b>
HIST 374	History of England (I-3a) (W) <b>3 hours</b>
	Intermediate Foreign Language <b>6 hours</b>

**Recommended for Teaching Majors****Choose one:**

- JOUR 175      Communication Workshop **1–3 hours**  
 JOUR 205      News Reporting **3 hours**  
 JOUR 208      Publication Tools and Techniques **3 hours**  
 JOUR 475      Communication Workshop **1–3 hours**

**ENGLISH, GRADUATE CONCENTRATION, B.A.****Required Courses**

- ELIT 214      Survey of American Literature (S-3a) **3 hours**  
 ELIT 215      Survey of English Literature (S-3a) **3 hours**  
 ELIT 216      Approaches to Literature (S-3a) **3 hours**  
 ELIT 445      Ancient Classics (S-3a) (W) **3 hours**  
 ELIT 460      Senior Research Project in English **1 hour**  
 ELIT 463      Literary Criticism **3 hours**  
 ELIT 490      Senior Capstone **1 hour**  
 ENGL 150      English Major Qualification **0 hours**  
 ENGL 316      Modern English Grammar and Linguistics **3 hours**  
 ENGL 313      Expository Writing (S-3c) (W) **3 hours**  
 or ENGL 314      Creative Writing (S-3c) (W) **3 hours**

**Select twelve (12) hours from the following:**

- ELIT 323      Nineteenth-Century American Literature (S-3a) (W) **3 hours**  
 ELIT 332      Studies in Medieval Literature (S-3a) (W) **3 hours**  
 ELIT 333      Studies in Renaissance Literature (S-3a) (W) **3 hours**  
 ELIT 335      Biblical Literature (S-3) (W) **3 hours**  
 ELIT 337      Nineteenth-Century British Literature (S-3a) (W) **3 hours**  
 ELIT 338      Twentieth-Century Writers (S-3a) (W) **3 hours**  
 ELIT 368      Studies in Milton (S-3a) (W) **3 hours**  
 ELIT 417      World Literature in Translation (S-3a) (W) **3 hours**  
 ELIT 425      Literature of the South (S-3a) (W) **3 hours**  
 ELIT 442      Shakespeare (S-3a) (W) **3 hours**  
 ELIT 444      Restoration and Eighteenth-Century Literature (S-3a) (W) **3 hours**  
 ENGL 313      Expository Writing (S-3c) (W) **3 hours**  
 or ENGL 314      Creative Writing (S-3c) (W) **3 hours**  
 ENGL 491      English Practicum **1–3 hours** (3 hours required)  
 or ENGL 492      English Internship **3 hours**

**TOTAL 35 HOURS****Required Cognates**

- HMNT 205      Arts and Ideas (S-3b) **3 hours**  
 HIST 374      History of England (I-3a) (W) **3 hours**  
 Intermediate Foreign Language **6 hours**

**ENGLISH, PROFESSIONAL/WRITING CONCENTRATION B.A.****Required Courses**

- ELIT 214      Survey of American Literature (S-3a) **3 hours**  
 ELIT 215      Survey of English Literature (S-3a) **3 hours**  
 ELIT 445      Ancient Classics (S-3a) (W) **3 hours**  
 ELIT 460      Senior Research Project in English **1 hour**  
 ELIT 490      Senior Capstone **1 hour**

ENGL 150	English Major Qualification	<b>0 hours</b>
ENGL 313	Expository Writing (S-3c) (W)	<b>3 hours</b>
ENGL 314	Creative Writing (S-3c) (W)	<b>3 hours</b>
ENGL 320	Rhetoric for Writers	<b>3 hours</b>
ENGL 420	Professional and Technical Writing	<b>3 hours</b>
ENGL 491	English Practicum	<b>1–3 hours</b>
or ENGL 492	English Internship	<b>3 hours</b>

**Select six (6) hours from the following literature courses:**

ELIT 216	Approaches to Literature (S-3a)	<b>3 hours</b>
ELIT 323	Nineteenth-Century American Literature (S-3a) (W)	<b>3 hours</b>
ELIT 337	Nineteenth-Century British Literature (S-3a) (W)	<b>3 hours</b>
ELIT 338	Twentieth-Century Writers (S-3a) (W)	<b>3 hours</b>
ELIT 442	Shakespeare (S-3a) (W)	<b>3 hours</b>
ELIT 444	Restoration and Eighteenth-Century Literature (S-3a) (W)	<b>3 hours</b>

**Select six (6) hours from the following journalism courses:**

JOUR 208	Publication Tools and Techniques	<b>3 hours</b>
JOUR 313	Publication Editing	<b>3 hours</b>
JOUR 316	Magazine and Feature Article Writing (W)	<b>3 hours</b>
JOUR 356	Investigative Reporting (W)	<b>3 hours</b>

**TOTAL 36–38 HOURS**

**Required Cognates**

BUAD 412	Preparing to Meet the Firms	<b>1 hour</b>
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## **ENGLISH, TESOL CONCENTRATION, B.A.**

With the preeminent position of English as a global language, numerous international opportunities exist for teachers with a practical understanding of linguistics, intercultural communication, and theories of second language acquisition. The teaching of English also provides an unparalleled platform for ministry, especially in contexts where formal missionary opportunities are limited or unavailable.

Since this is a concentration with the English major, students will also be equipped for a number of other careers that require the ability to think analytically and creatively and communicate effectively. With its emphasis on cross-cultural communication, the concentration serves as a starting point for students aiming at careers in the following areas:

- International business
- Non-profit and development
- Human resources
- Civil service
- International and immigration law

**Required Courses**

ELIT 214	Survey of American Literature (S-3a)	<b>3 hours</b>
ELIT 215	Survey of English Literature (S-3a)	<b>3 hours</b>
ELIT 216	Approaches to Literature (S-3a)	<b>3 hours</b>
ELIT 430	Library Materials for Young Adults	<b>2 hours</b>
ELIT 445	Ancient Classics (S-3a) (W)	<b>3 hours</b>
ELIT 460	Senior Research Project in English	<b>1 hour</b>
ELIT 490	Senior Capstone	<b>1 hour</b>

ENGL 150	English Major Qualification	<b>0 hours</b>
ENGL 202	Grammar	<b>3 hours</b>
ENGL 301	English as a Second Language: Issues and Trends	<b>3 hours</b>
ENGL 302	English as a Second Language: Strategies and Methods	<b>3 hours</b>
ENGL 316	Modern English Grammar and Linguistics	<b>3 hours</b>
ENGL 313	Expository Writing (S-3c) (W)	<b>3 hours</b>
or ENGL 314	Creative Writing (S-3c) (W)	<b>3 hours</b>
ENGL 476	Practicum: English as a Second Language	<b>1 hour</b>
or EDUC 476	Practicum: English as a Second Language	<b>1 hour</b>

**Select nine (9) hours from the following:**

ELIT 323	Nineteenth-Century American Literature (S-3a) (W)	<b>3 hours</b>
ELIT 335	Biblical Literature (S-3) (W)	<b>3 hours</b>
ELIT 337	Nineteenth-Century British Literature (S-3a) (W)	<b>3 hours</b>
ELIT 338	Twentieth-Century Writers (S-3a) (W)	<b>3 hours</b>
ELIT 417	World Literature in Translation (S-3a) (W)	<b>3 hours</b>
ELIT 442	Shakespeare (S-3a) (W)	<b>3 hours</b>
ENGL 313	Expository Writing (S-3c) (W)	<b>3 hours</b>
or ENGL 314	Creative Writing (S-3c) (W)	<b>3 hours</b>

**TOTAL 41 HOURS**

**Required Cognates**

COMM 330	Intercultural Communication (I-3b) (W)	<b>3 hours</b>
	Intermediate Foreign Language	<b>6 hours</b>

**ENGLISH MINOR**

**Required Courses**

ELIT 214	Survey of American Literature (S-3a)	<b>3 hours</b>
ELIT 215	Survey of English Literature (S-3a)	<b>3 hours</b>
ELIT 216	Approaches to Literature (S-3a)	<b>3 hours</b>
ENGL 316	Modern English Grammar and Linguistics	<b>3 hours</b>
	Upper Division Electives (except ELIT 440)	<b>3 hours</b>
ENGL 313	Expository Writing (S-3c) (W)	<b>3 hours</b>
or ENGL 314	Creative Writing (S-3c) (W)	<b>3 hours</b>

**TOTAL 18 HOURS**

**English as a Second Language Program (EESL)**

The English as a Second Language Program is designed to help students whose native language is not English develop the English skills needed for success in the regular academic program. These skills include reading, writing, grammar, and other study skills specific to the American educational environment. Students whose TOEFL scores are between 45-79 (Internet-based test), or whose English ACT score is below 18, as demonstrated by a test taken in the last 12 months, must enroll in this program. Students may not advance into the regular college composition sequence until they have achieved an ACT of 18 (SAT 450) or have permission of the instructor upon completion of ENGL 100.

Students who have not met the exit requirements must register for from one to three courses in the ESL program, and additional credit outside the ESL program, as approved by the ESL adviser, not to exceed a total load of 13 hours. The number of ESL courses required for a given student can be determined as follows:

- A student with a TOEFL IBT score of less than 60 (500 PBT) who is a new-comer to the university should register for three ESL courses. Students with scores over 60 may register for one to two ESL courses.
- With the approval of the ESL adviser, a student who has already completed a semester of the ESL program may register for one or two ESL courses, depending on test scores and performance in ESL classes. ENGL 100 can meet this requirement.

### Courses Offered

EESL 123	Language Skills: Grammar 1 <b>(3 hours)</b>
EESL 124	Language Skills: Grammar 2 <b>(3 hours)</b>
EESL 125	Language Skills: Grammar 3 <b>(3 hours)</b>
EESL 126	Language Skills: Grammar 4 <b>(3 hours)</b>
EESL 133	Language Skills: Writing 1 <b>(3 hours)</b>
EESL 134	Language Skills: Writing 2 <b>(3 hours)</b>
EESL 141	Language Skills II: TOEFL Preparation <b>(1 hour n/c)</b>
EESL 142	English for Academic Purposes 1 <b>(3 hours)</b>
EESL 143	English for Academic Purposes 2 <b>(3 hours)</b>
ENGL 100	Basic Writing <b>(3 hours)</b>

## ENGLISH, TEACHING ENDORSEMENT

Students certified in another content area who also want an endorsement for teaching English must take the following classes:

### Required Courses

ELIT 214	Survey of American Literature (S-3a) <b>3 hours</b>
ELIT 215	Survey of English Literature (S-3a) <b>3 hours</b>
ELIT 216	Approaches to Literature (S-3a) <b>3 hours</b>
ELIT 430	Library Materials for Young Adults <b>2 hours</b>
ELIT 445	Ancient Classics (S-3a) (W) <b>3 hours</b>
ENGL 316	Modern English Grammar and Linguistics <b>3 hours</b>
EDUC 342	Curriculum and Content Methods <b>2 hours</b>
ENGL 313	Expository Writing (S-3c) (W) <b>3 hours</b>
or ENGL 314	Creative Writing (S-3c) (W) <b>3 hours</b>

**TOTAL 22 HOURS**

# History and Political Studies

**Chair:** Lisa Clark Diller

**Faculty:** Lisa Clark Diller, Kris Erskine, Ben McArthur, Mark Peach, Mindi Wiygul

**Program Coordinator (History):** Lisa Clark Diller

**Program Coordinator (GPS):** Mindi Wiygul

## History

History is the study of the human experience. It investigates mankind's ideas, institutions, and activities. In pursuing this investigation, history courses at Southern Adventist University emphasize the Christian view of humanity. This perspective recognizes both the potential and the limitation of human endeavor and thereby permits a broader comprehension of the past and a greater hope for the future.

## Planning Your Major

History majors have a large amount of flexibility within their course of study. All majors should work closely with their academic adviser to plan for maximizing their educational time through judicious choices of classes, second majors and/or minors. Academic advisers are also a good source of wisdom in regard to thinking about employment after graduation and/or the pursuit of graduate school degrees.

## Description of Political Studies

The mission of the Global Policy and Service program is to provide students with a greater understanding of the politics of the global arena and to enable students to develop practical skills to serve intelligently and with cultural sensitivity, fostering the compassion of Jesus in a world of desperate need.

## Assessment

### Departmental Policies

1. A maximum of three hours may be earned through AP or CLEP for the history/GPS major or minors
2. Nine hours must be taken in residence.

### GPS Majors

Seniors will be assessed two ways:

1. By writing a senior capstone paper which will be evaluated by the GPS professor.
2. By presenting their research to the entire History and Political Studies faculty in a formal setting.

### History Majors

Assessment of seniors consists of two parts. First, in late fall semester of their senior year students will take a national standardized major field exam

in history. Second, at the beginning of the fall semester seniors will take a departmental exam. Preparation for this exam will constitute a one-hour independent study course involving: 1) reading a selected few classics of historical literature; 2) reviewing one's history course work utilizing several thematic questions provided by the history faculty; 3) creating a comprehensive c.v. detailing the student's undergraduate experience. The subsequent examination will be in the form of a one-hour interview of the candidate by the history faculty. The oral examination is graded on an Honors, Pass, or Fail basis. A failure requires further preparation by the student and another interview before graduation.

Upper-division history classes seek to improve skills of writing and speech. All such classes require analytical writing as part of the course work. Additionally, many classes involve discussion and oral class reports as partial basis for the student's grade, most notably HIST 497, which requires an extended formal presentation of student research.

**History as a preprofessional degree:** A student majoring in history who plans to enter a professional school in an area such as medicine or law must present a balanced program of general education classes and electives that will support the professional objectives.

**History Department tours:** The History Department regularly sponsors study tours. The purpose of these tours is to provide students and other participants with an enhanced understanding of history and culture through a combination of traditional lecture and reading with direct observation of historical sites. Academic activities connected with the tours require students to spend an amount of time equal to that expected in a regular classroom setting. Preparatory meetings and assigned reading are included in this computation. Course credit is offered under HIST 294/HIST 494 for International Tours and HIST 296/HIST 496. Cost of the tours includes charge for academic credit. Up to six hours of history tour credit may count toward the history major or minor.

**History as general education:** Freshman and sophomore students earning general education credit in history normally take courses from the 100 and 200 level. Junior and senior students meeting General Education requirements in history should select courses from the 300 and 400 level.

## GLOBAL POLICY AND SERVICE STUDIES, B.A.

### Required Courses

ACCT 103	College Accounting (I-5) <b>3 hours</b>
GEOG 204	World Geography (I-3b) (SERV-2) <b>3 hours</b>
GPSS 110	Human Rights and Service (I-3b) (SERV-2) <b>3 hours</b>
GPSS 220	Global Politics (I-3b) <b>3 hours</b>
GPSS 350	Sustainability Studies <b>3 hours</b>
GPSS 360	Political Economy <b>3 hours</b>
GPSS 370	Policies in Global Health (W) <b>3 hours</b>
GPSS 490	Senior Capstone <b>1 hour</b>
GPSS 250	Cross-Cultural Experience <b>3 hours</b>
MGNT 452	Christian Missionary Entrepreneurship <b>3 hours</b>
RELP 340	World Missions (R-4) <b>3 hours</b>
TECH 138	Practical Technology for Developing Countries <b>2 hours</b>
	Intermediate level foreign language <b>3-6 hours</b>

GPSS 291 GPS Practicum **3 hours**  
or GPSS 491 GPS Practicum **3 hours**

**TOTAL 39–42 HOURS**

### Recommended

HIST 175 World Civilizations II (I-3a) **3 hours**  
PLSC 254 American National and State Government (I-3b) **3 hours**  
RELT 458 World Religions (W) (R-4) **3 hours**

## HISTORY, B.A.

### Required Courses

HIST 154 American History and Institutions I (I-3a) **3 hours**  
HIST 155 American History and Institutions II (I-3a) **3 hours**  
HIST 174 World Civilizations I (I-3a) **3 hours**  
HIST 175 World Civilizations II (I-3a) **3 hours**  
HIST 297 Historiography (SERV-2) **2 hours**  
HIST 490 Senior Exam Preparation **1 hour**  
HIST 497 Research Methods in History (W) **3 hours**

### Additional Requirements

Of the remaining 12 hours, 10 UD hours are required, at least two courses from the American and at least two courses from the non-American sections.

Select six (6) hours from the following:

#### (American History)

HIST 351 Colonial Latin America (I-3a) (W) **3 hours**  
HIST 353 From Colony to Nation (I-3a) (W) **3 hours**  
HIST 355 History of the South (I-3a) (W) **3 hours**  
HIST 356 Natives and Strangers (I-3a) (W) **3 hours**  
HIST 357 Modern America (I-3a) (W) **3 hours**  
HIST 359 Transformation of American Culture (I-3a) (W) **3 hours**  
HIST 465 Topics in History [465 typically qualifies as a (W) course] **3 hours**  
PLSC 254 American National and State Government (I-3b) **3 hours**  
PLSC 353 From Colony to Nation (W) **3 hours**  
PLSC 357 Modern America (W) **3 hours**

### Select six (6) hours from the following:

#### (Non-American History)

HIST 345 Middle Eastern Politics and History (I-3a) (W) **3 hours**  
HIST 374 History of England (I-3a) (W) **3 hours**  
HIST 375 Ancient Mediterranean World (I-3a) (W) **3 hours**  
HIST 380 Pirates, Captives, and Slaves in the Early Modern World (I-3a) (W) **3 hours**  
HIST 386 Medieval Europe (I-3a) (W) **3 hours**  
HIST 387 Europe in the Nineteenth Century (I-3a) (W) **3 hours**  
HIST 388 Contemporary Europe (I-3a) (W) **3 hours**  
HIST 389 History of the Holocaust (I-3a) (W) **3 hours**  
HIST 465 Topics in History [465 typically qualifies as a (W) course] **3 hours**  
HIST 471 Classics of Western Thought I (I-3a) (W) **3 hours**  
HIST 472 Classics of Western Thought II (I-3a) (W) **3 hours**  
PLSC 345 Middle Eastern Politics and History (W) **3 hours**  
PLSC 388 Contemporary Europe (W) **3 hours**  
PLSC 471 Classics of Western Thought I (W) **3 hours**  
PLSC 472 Classics of Western Thought II (W) **3 hours**



- HIST 364 Christian Church I: From the Early Church Through the Middle Ages (I-3a) (W) **3 hours**  
 or HIST 365 Christian Church II: From the Reformation Through the Twentieth Century (I-3a) (W) **3 hours**

**TOTAL 30 HOURS**

### Required Cognates

Inter Level of Foreign Language (ASL does not apply) **3–6 hours**

### Select three (3) hours from the following:

- PLSC 224 Principles of Macroeconomics (I-5) **3 hours**  
 GEOG 204 World Geography (I-3b) (SERV-2) **3 hours**  
 GPSS 360 Political Economy **3 hours**

### European Studies Concentration

In addition to completing the above-described program for the history major, a student must: 1) complete an additional three hours of upper-division European history; 2) complete as a cognate requirement a minor or a major in a modern European foreign language (including a summer, a semester, or a year of study abroad in an ACA program).

**TOTAL 33 HOURS**

## HISTORY, TEACHER CERTIFICATION, LEADING TO TEACHING LICENSURE IN HISTORY/GOVERNMENT 7–12, B.A.

### Required Courses

- HIST 154 American History and Institutions I (I-3a) **3 hours**  
 HIST 155 American History and Institutions II (I-3a) **3 hours**  
 HIST 174 World Civilizations I (I-3a) **3 hours**  
 HIST 175 World Civilizations II (I-3a) **3 hours**  
 HIST 297 Historiography (SERV-2) **2 hours**  
 HIST 490 Senior Exam Preparation **1 hour**  
 HIST 497 Research Methods in History (W) **3 hours**

### Additional Requirements

Of the remaining 12 hours, two from American and two from non-American courses, 6 hours of which should be PLSC and 6 hours should be from HIST.

Select six (6) hours from the following:

#### (American History)

- HIST 265 Topics in History **3 hours**  
 HIST 351 Colonial Latin America (I-3a) (W) **3 hours**  
 HIST 353 From Colony to Nation (I-3a) (W) **3 hours**  
 HIST 355 History of the South (I-3a) (W) **3 hours**  
 HIST 356 Natives and Strangers (I-3a) (W) **3 hours**  
 HIST 357 Modern America (I-3a) (W) **3 hours**  
 HIST 359 Transformation of American Culture (I-3a) (W) **3 hours**  
 HIST 465 Topics in History [465 typically qualifies as a (W) course] **3 hours**  
 PLSC 353 From Colony to Nation (W) **3 hours**  
 PLSC 357 Modern America (W) **3 hours**

### Select six (6) hours from the following:

#### (Non-American History)

- HIST 265 Topics in History **3 hours**

HIST 345	Middle Eastern Politics and History (I-3a) (W) <b>3 hours</b>
HIST 364	Christian Church I: From the Early Church Through the Middle Ages (I-3a) (W) <b>3 hours</b>
HIST 365	Christian Church II: From the Reformation Through the Twentieth Century (I-3a) (W) <b>3 hours</b>
HIST 374	History of England (I-3a) (W) <b>3 hours</b>
HIST 375	Ancient Mediterranean World (I-3a) (W) <b>3 hours</b>
HIST 380	Pirates, Captives, and Slaves in the Early Modern World (I-3a) (W) <b>3 hours</b>
HIST 386	Medieval Europe (I-3a) (W) <b>3 hours</b>
HIST 387	Europe in the Nineteenth Century (I-3a) (W) <b>3 hours</b>
HIST 388	Contemporary Europe (I-3a) (W) <b>3 hours</b>
HIST 389	History of the Holocaust (I-3a) (W) <b>3 hours</b>
HIST 465	Topics in History [465 typically qualifies as a (W) course] <b>3 hours</b>
HIST 471	Classics of Western Thought I (I-3a) (W) <b>3 hours</b>
HIST 472	Classics of Western Thought II (I-3a) (W) <b>3 hours</b>
PLSC 345	Middle Eastern Politics and History (W) <b>3 hours</b>
PLSC 388	Contemporary Europe (W) <b>3 hours</b>
PLSC 471	Classics of Western Thought I (W) <b>3 hours</b>
PLSC 472	Classics of Western Thought II (W) <b>3 hours</b>
<b>TOTAL 30 HOURS</b>	

The student must apply for Initial Admission to the Teacher Education Program (usually by the end of the sophomore year) after completing all requirements as outlined under ADMISSION PROCEDURES in the School of Education and Psychology section of the *Catalog*. Initial admission is required before the student can enroll in upper division education courses.

The student must also complete an application and all other requirements for Admission to Student Teaching. Prior to student teaching, the student must take and pass the PRAXIS II licensure exam—both the appropriate section of the Principles of Learning and Teaching, and the particular specialty test(s) for the licensure area(s).

### Required Cognates

	Inter Level of Foreign Language (ASL does not apply) <b>3–6 hours</b>
GEOG 204	World Geography (I-3b) (SERV-2) <b>3 hours</b>
PLSC 224	Principles of Macroeconomics (I-5) <b>3 hours</b>
PLSC 254	American National and State Government (I-3b) <b>3 hours</b>

**Must include 37 hours in Education as follows:**

### Professional Education Requirements

EDUC 138	Introduction to and Foundations of Secondary Education <b>3 hours</b>
EDUC 319	Technology in Education (I-2b, I-2c) <b>3 hours</b>
EDUC 338	Foundations of Inclusive Education (SERV-2) <b>3 hours</b>
EDUC 341	General Methods and Assessment <b>3 hours</b>
EDUC 342	Curriculum and Content Methods <b>2 hours</b>
EDUC 343	Learning Theories and Classroom Management <b>3 hours</b>
EDUC 419	Philosophy and Leadership in Christian Education (W) (SERV-2) <b>3 hours</b>
EDUC 434	Reading and Writing in the Content Areas <b>2 hours</b>
EDUC 464	Teaching Seminar <b>2 hours</b>
EDUC 472	Enhanced Student Teaching 7-12 (SERV-2) <b>10 hours</b>
EDUC 220	Growth Years (S-2) <b>3 hours</b>
or PSYC 128	Developmental Psychology (S-2) <b>3 hours</b>

**Basic Certificate (SDA Denominational)**

HLED 173	Health for Life (P-2) <b>2 hours</b>
RELB	Biblical Studies <b>3 hours</b>
REL	Upper division Rlgn elective <b>3 hours</b>
RELT 255	Christian Beliefs (R-2) <b>3 hours</b>
RELT 138	Adventist Heritage (R-2) <b>3 hours</b>
EDUC 220	Growth Years (S-2) <b>3 hours</b>
or PSYC 128	Developmental Psychology (S-2) <b>3 hours</b>

**GLOBAL POLICY AND SERVICE STUDIES MINOR****Required Courses**

GPSS 110	Human Rights and Service (I-3b) (SERV-2) <b>3 hours</b>
GPSS 220	Global Politics (I-3b) <b>3 hours</b>
GPSS 250	Cross-Cultural Experience <b>3 hours</b>
GPSS 350	Sustainability Studies <b>3 hours</b>
MGNT 452	Christian Missionary Entrepreneurship <b>3 hours</b>
GPSS 360	Political Economy <b>3 hours</b>
or GPSS 370	Policies in Global Health (W) <b>3 hours</b>

**TOTAL 18 HOURS****HISTORY MINOR****Required Courses**

HIST 174	World Civilizations I (I-3a) <b>3 hours</b>
HIST 175	World Civilizations II (I-3a) <b>3 hours</b>

**TOTAL 18 HOURS**

The additional twelve hours will be chosen from remaining history courses, six hours of which must be upper division. A minimum of three hours must be chosen from each of the American and European areas. Three hours of political science may be taken in lieu of three hours of history.

**POLITICAL ECONOMY MINOR**

Combines an interdisciplinary selection of courses helpful for law school preparation. For a further description of this pre-law preparation program, see Law.

**TOTAL 18 HOURS****POLITICAL SCIENCE MINOR**

This minor provides opportunity for students to gain practical experience in governmental work as part of an academic program. Internships are intended to give intensive exposure to state or federal government or to public advocacy work.

**Required Courses**

PLSC 254	American National and State Government (I-3b) <b>3 hours</b>
PLSC 291	Political Science Practicum <b>3-6 hours</b>
or PLSC 491	Political Science Practicum <b>3-6 hours</b>

**Select nine (9) hours from the following:**

PLSC/GPSS Any PLSC or GPSS courses (6 hours must be UD) **9 hours**  
**TOTAL 18 HOURS**

**WESTERN INTELLECTUAL TRADITION MINOR**

**Required Courses**

ELIT 445 Ancient Classics (S-3a) (W) **3 hours**  
HMNT 205 Arts and Ideas (S-3b) **3 hours**  
HMNT 210 Introduction to Philosophy (I-3a) **3 hours**  
HIST 471 Classics of Western Thought I (I-3a) (W) **3 hours**  
or HIST 472 Classics of Western Thought II (I-3a) (W) **3 hours**  
HIST 295 Directed Study **1-3 hours** (3 hours required)  
or HIST 495 Directed Study (W) **1-3 hours** (3 hours required)

**Select three (3) hours from the following:**

ELIT 417 World Literature in Translation (S-3a) (W) **3 hours**  
HIST 471 Classics of Western Thought I (I-3a) (W) **3 hours**  
HIST 472 Classics of Western Thought II (I-3a) (W) **3 hours**  
RELT 467 Christian Philosophy and Worldviews (R-4) (W) **3 hours**  
PHYS 317 Issues in Physical Science and Religion (I-4d) **3 hours**  
or RELT 317 Issues in Physical Science and Religion (R-4) **3 hours**  
**TOTAL 18 HOURS**

# Interdisciplinary

**Program Coordinator:** Volker Henning

The student-designed major is an interdisciplinary program available to any student who wishes to develop a more individualized program of study than those provided by existing majors. It is a coherent program of study that crosses disciplinary lines. One of the major disciplines must be chosen as the primary discipline to provide a coherent focus for the major. In planning the interdisciplinary major, the student selects an advisory committee of three faculty members, two from the primary discipline (including the department/school chair or dean) and one of the secondary disciplines. The Associate Vice-President of Academic Administration also serves on the advisory committee.

All students interested in developing an interdisciplinary major or in applying to the major must meet with the Associate Vice-President of Academic Administration. The requirements are intended to ensure that the interdisciplinary major is integrally related to the goals of a liberal arts education and appropriately reflect the disciplines involved. Each course of study is approved only on a case-by-case basis.

Interdisciplinary major is a privilege granted by the University to students who display unusual motivation to study an area not included among its degree programs. Although the individual student is responsible for the design and planning of the program, he or she must fulfill the following requirements:

1. Completion of General Education requirements (including the intermediate level of a foreign language for B.A. Degree).
2. The advisory committee must approve the admission to the major. Applications must be made no later than fall semester of the junior year. An applicant should have a minimum grade point average of 3.50. Continuation in the program requires a grade point average of at least 3.30 each semester.
3. Majors will be approved only where university faculty and courses can provide a degree program of high quality. New courses will not be created for a student; however, a directed study course may be provided. In special cases up to nine (9) hours of transfer credit from another institution may apply to a major, particularly of specialized courses not available at Southern.
4. Bachelor of Art degree majors must have 30 hours, of which a minimum of 14 hours will be upper division. A second major or a minor from Southern's degree programs must be included.
5. Bachelor of Science majors must have 42 hours, of which a minimum of 18 hours will be upper division.
6. Courses for the major shall be chosen from at least two and not more than four disciplines.
7. Both B.A. and B.S. majors must include a three (3) hour research project (accomplished under a directed study number). Students will provide a defense of their project before their advisory committee.
8. In order to graduate, the student must have a minimum of 124 semester hours, 40 upper division hours, and three writing classes.

At least 30 of the semester hours in the major must be taken in residence after the student's application and proposal for the major have been approved by the advisory committee. A grade of C or better must be obtained in all courses in the interdisciplinary major.

For the students who design their major, their transcript will give the degree and major: "Interdisciplinary" with the concentration as approved by the Advisory Committee.

It should be noted that any students receiving VA education benefits must have their interdisciplinary major and course of study submitted to and approved by the Tennessee Higher Education Commission as the State Approving Agency before certification to the VA.

# School of Journalism and Communication

**Dean:** Linda Potter Crumley

**Faculty:** Lorraine Ball, Lynelle Ellis, Tara D. Hargrove, Pamela M. Harris, Kendra Stanton Lee, Andy Nash, Stephen Ruf, Greg Rumsey

**Adjunct Faculty:** David Barasoian, Chris Carey, Ryan Harrell, Volker Henning, John Keyes, Sam Nkana, James Seward, Billy Weeks

## **Program Coordinators:**

Mass Communication, Greg Rumsey

Public Relations, Greg Rumsey

Public Relations and Business Administration, Greg Rumsey

Broadcast Journalism, Stephen Ruf

Communication Studies, Linda Crumley

Journalism, Andy Nash

Media Technology A.S., Lynelle Ellis

**Advisory Council:** A current list of Advisory Council members is kept in the School of Journalism and Communication.

## **Mission Statement**

In harmony with Southern Adventist University's Christian environment, the School's programs integrate theory and practical skills necessary for graduates to serve in communication-related careers or to enter graduate school.

## **Admission Criteria**

To graduate with a degree from the School of Journalism and Communication, acceptance to the School is required. Declaration as a major is not the equivalent to acceptance to the School of Journalism and Communication. Minimum requirements for admission to the School of Journalism and Communication are:

- Acceptance to Southern Adventist University
- A minimum English ACT score of 18 or SAT equivalent
- Completion of category A general education English and Math requirement
- Completion of COMM 103
- Completion of JOUR 105 with a grade of "C" or better
- Earned overall GPA of 2.25 or better

Students pursuing a major offered by the School of Journalism and Communication will be considered for admission at the end of the freshman year (24-32 hours). Transfer and change-of-major students will be considered for admission on a case-by-case basis.

The School of Journalism and Communication provides an **educational environment** in which future leaders in telecommunications, journalism, public relations, and related areas can acquire the enduring ethical concepts, the intellectual discipline, and the professional abilities necessary for the mastery and management of a wide range of writing, editing, and other journalistic and public relations skills and techniques.

The School offers the Bachelor of Arts Degree with **majors** in Communication Studies and Journalism, a Bachelor of Science Degree in Mass Communication, Public Relations, and a Bachelor of Science Degree (combined major) in Public Relations and Business Administration as well as an Associate of Science Degree in Media Technology. **Minors** are also available in Advertising, Broadcast Journalism, Communication Studies, Intercultural Communication, Journalism (News Editorial), Media Production, Photography, Public Relations, and Sales.

All students completing a bachelor's degree in 1) Journalism or 2) Mass Communication with a Writing/Editing emphasis will be expected to submit a portfolio during their senior year, including a representative collection of significant work done for class assignments in their major courses, along with a self-critique and discussion of skills and knowledge gained through those projects.

Students graduating with a degree in **Communication Studies** may find work in corporations, nonprofit organizations, government agencies, and a variety of religious and educational institutions. Students who pursue this degree are prepared to seek employment as communication specialists in a variety of settings.

The **Journalism** major prepares students for careers as reporters, writers, videographers, producers, and editors for daily and weekly newspapers, magazines, radio and television stations, online news providers, wire services, publishing houses, and for the vast array of news organizations that serve the church, business, industry, governmental agencies, the medical field, colleges and universities, and other nonprofit organizations.

Students graduating with the Bachelor of Science in **Mass Communication** have a broad communication education with a selected specialty that prepares them for a large variety of communication jobs in the church, in corporations, and also in nonprofit organizations.

**Public Relations** majors are prepared for careers in business, industry, government, the church, colleges, universities, hospitals, and other medical institutions, and in a wide range of organizations.

The dual major of **Public Relations** and **Business Administration** is a unique degree program. Because it contains the core classes from both majors, it equips students with public relations and business skills and makes graduates especially competitive in the corporate world.

All of the School's bachelor's degree majors prepare students for entry into graduate schools nationwide.

The associate degree in **Media Technology** prepares the student for entry level positions in media production, desktop publishing, or web design.

Members of the faculty will advise each student in planning a study program that is supportive of individual career goals, that meets degree requirements of the School of Journalism and Communication, and fulfills General Education requirements.

## Residency

All baccalaureate degrees offered by the School of Journalism and Communication require that at least 12 upper division hours of the respective degree requirements must be taken at Southern Adventist University.



## Meet The Firms

Meet the Firms is a program sponsored by the School of Journalism and Communication, and other schools on campus to facilitate students in locating internships and jobs in their fields of study. A Meet the Firms job fair is held each fall and winter semester. A variety of invited companies meet with students to interview, network, and mentor in preparation for placement.

## Internships and On-the-Job Training

Because of the strong relationships which the school has developed with the Chattanooga area mass media, students in journalism, broadcasting, and public relations have many opportunities to meet and work with professionals in television and radio news, in public relations, advertising, and on daily and weekly newspapers.

**Internships:** Helping students locate internships at newspapers, in publishing houses, in public relations and fund development departments in hospitals, in advertising agencies, and in radio and television newsrooms is a vital part of the education program provided by the School.

An Advisory Council and a Consulting Board advise the school in providing internships that give on-the-job experience. The School also participates in the General Conference internship program in which students work in various denominational institutions. The University radio station, WSMC FM90.5, and other media outlets provide learning opportunities for students.

**Campus Publications:** Students can gain valuable experience as writers, editors, and producers by working on Student Association productions such as *Southern Accent*, the campus newspaper; *Southern Memories*, the yearbook; and *Strawberry Festival*, the annual multi-media review of the year.

## Assessment

To make satisfactory progress toward preparation for the job market, students majoring in the School will be expected to attend school assemblies and other professional meetings sponsored by the School.

Students should demonstrate their growing professionalism through involvement in the operation of WSMC FM90.5; in the publication of the *Southern Accent*, *Southern Memories*, or some other publication; or in communication activities for a campus, church, or community organization.

Participation in the Communication Club and involvement in a professional organization such as the Society of Adventist Communicators, the Southern States Communication Association, the Society of Professional Journalists, or the Public Relations Student Society of America are also evidence of professional commitment.

School files for each student majoring in the School serve as a source of information for professors asked to provide recommendations for students seeking practicum, internships, or job positions.

Students in the School will be given a writing skills test when they take JOUR 105. On the basis of the results, advisers will recommend any needed remediation, which students must complete before registering for other writing courses offered by the School.

School effectiveness will be assessed by combining the results of the cumulative evaluations, student evaluations of courses, and questionnaires completed by alumni and supervisors of interns. To determine that the curriculum meets the objectives of the School and the standards of the Accrediting Council of Education in Journalism and Mass Communication, the faculty makes an ongoing analysis of courses required for majors.

## MASS COMMUNICATION, B.S.

### Required Core

BRDC 201	Introduction to Electronic Media <b>3 hours</b>
COMM 103	Introduction to Mass Communication <b>3 hours</b>
COMM 415	Portfolio and Career <b>1 hour</b>
JOUR 105	Writing for the Media <b>3 hours</b>
JOUR 205	News Reporting <b>3 hours</b>
JOUR 208	Publication Tools and Techniques <b>3 hours</b>
JOUR 242	Intro to Web Design <b>3 hours</b>
JOUR 427	Mass Media Law and Ethics <b>3 hours</b>
JOUR 488	Mass Communication and Society (W) <b>3 hours</b>
PHTO 125	Introduction to Photography (S-3c) <b>3 hours</b>
PREL 235	Public Relations Principles and Theory <b>3 hours</b>
or PREL 485	Public Relations Techniques <b>3 hours</b>

### TOTAL 31 HOURS

*In consultation with your adviser select one concentration. You must select at least 12 hours of upper division credit within your concentration.*

### ADVERTISING CONCENTRATION

Mass Communication Core **31 hours**

BMKT 326	Principles of Marketing <b>3 hours</b>
BMKT 328	Sales Management <b>3 hours</b>
COMM 397	Communication Research (W) <b>3 hours</b>
COMM 406	Persuasion and Propaganda (W) <b>3 hours</b>
PREL 344	Fundamentals of Advertising <b>3 hours</b>
PREL 355	Advertising Copywriting <b>3 hours</b>

### Select fifteen (15) hours from the following:

ART 109	2D Foundations-Plane and Color (S-3c) <b>3 hours</b>
ARTG 210	Vector Graphics <b>3 hours</b>
ARTG 212	Raster Graphics <b>3 hours</b>
ARTG 332	Advertising Design <b>3 hours</b>
ARTG 115	Introduction to Computer Graphics (I-2c) <b>3 hours</b>
BMKT 327	Consumer Behavior <b>3 hours</b>
COMM 330	Intercultural Communication (I-3b) (W) <b>3 hours</b>
MGNT 371	Principles of Entrepreneurship <b>3 hours</b>
PHTO 320	Digital Photography <b>3 hours</b>
PREL 291	Practicum <b>1-3 hours</b>
PREL 391	Practicum <b>1-3 hours</b>
PREL 492	Public Relations Internship <b>3 hours</b>
TECH 244	Graphic Production <b>3 hours</b>

### TOTAL 64 HOURS

**MEDIA PRODUCTION CONCENTRATION**

Mass Communication Core **31 hours**

- ARTF 215 Lighting **3 hours**  
 BRDC 127 Intro to Digital Storytelling **3 hours**  
 BRDC 202 Digital Audio Production **3 hours**  
 BRDC 227 Multi-Camera Production **3 hours**  
 BRDC 327 Advanced Field Production **3 hours**  
 BRDC 426 TV News Reporting and Performance **3 hours**  
 BRDC 445 Senior Project **1 hour**  
 COMM 315 Scriptwriting (W) **3 hours**  
 or BRDC 314 Broadcast News Writing (W) **3 hours**

**Select nine (9) hours from the following:**

- ARTF 320 Post Production **3 hours**  
 ARTF 353 Directing the Documentary (SERV-2) **3 hours**  
 BRDC 291 Practicum **1–3 hours**  
 BRDC 391 Practicum **1–3 hours**  
 BRDC 417 Media Management and Ministry **3 hours**  
 BRDC 492 Broadcast/Media Production Internship **3 hours**  
 COMM 326 Film Evaluation (S-3a) (W) **3 hours**  
 MGNT 371 Principles of Entrepreneurship **3 hours**

**TOTAL 62 HOURS**

**NEW MEDIA CONCENTRATION**

Mass Communication Core **31 hours**

- BRDC 127 Intro to Digital Storytelling **3 hours**  
 BRDC 202 Digital Audio Production **3 hours**  
 BRDC 327 Advanced Field Production **3 hours**  
 CPTe 212 Web Programming **3 hours**  
 CPTR 124 Fundamentals of Programming (S-3d) **4 hours**  
 JOUR 342 Interactive Journalism **3 hours**  
 JOUR 445 Senior Project **1 hour**  
 PHTO 320 Digital Photography **3 hours**

**Select nine (9) hours from the following:**

- ART 109 2D Foundations-Plane and Color (S-3c) **3 hours**  
 ARTG 115 Introduction to Computer Graphics (I-2c) **3 hours**  
 ARTI 223 Interactive Media I **3 hours**  
 ARTI 265 Topics in Interactive Media **1–3 hours**  
 JOUR 313 Publication Editing **3 hours**  
 JOUR 492 Journalism Internship **3 hours**  
 JOUR 291 Practicum **1–3 hours**

or JOUR 391 Practicum **1–3 hours**

**TOTAL 63 HOURS**

**PHOTOGRAPHY CONCENTRATION**

Mass Communication Core **31 hours**

- ARTF 215 Lighting **3 hours**  
 BRDC 127 Intro to Digital Storytelling **3 hours**  
 BRDC 227 Multi-Camera Production **3 hours**  
 PHTO 275 Applied Photojournalism **1 hour**  
 PHTO 315 Photojournalism **3 hours**

- PHTO 320 Digital Photography **3 hours**  
PHTO 447 Senior Portfolio **1 hour**

**Select nine (9) hours from the following:**

- ART 109 2D Foundations-Plane and Color (S-3c) **3 hours**  
BRDC 327 Advanced Field Production **3 hours**  
MGNT 371 Principles of Entrepreneurship **3 hours**  
PHTO 492 Photography Internship **3 hours**  
PHTO 265 Topics in Photography **1–3 hours**  
or PHTO 465 Topics in Photography **1–3 hours**  
PHTO 291 Practicum **1–3 hours**  
or PHTO 391 Practicum **1–3 hours**

**TOTAL 57 HOURS**

**WRITING/EDITING CONCENTRATION**

- Mass Communication Core **31 hours**  
COMM 397 Communication Research (W) **3 hours**  
JOUR 313 Publication Editing **3 hours**  
JOUR 316 Magazine and Feature Article Writing (W) **3 hours**  
JOUR 342 Interactive Journalism **3 hours**  
JOUR 356 Investigative Reporting (W) **3 hours**

**Select twelve (12) hours from the following:**

- BRDC 314 Broadcast News Writing (W) **3 hours**  
COMM 315 Scriptwriting (W) **3 hours**  
ENGL 313 Expository Writing (S-3c) (W) **3 hours**  
ENGL 314 Creative Writing (S-3c) (W) **3 hours**  
JOUR 492 Journalism Internship **3 hours**  
PREL 355 Advertising Copywriting **3 hours**  
JOUR 291 Practicum **1–3 hours**  
or JOUR 391 Practicum **1–3 hours**  
JOUR 175 Communication Workshop **1–3 hours**  
or JOUR 475 Communication Workshop **1–3 hours**  
PHTO 315 Photojournalism **3 hours**  
or PHTO 320 Digital Photography **3 hours**

**TOTAL 58 HOURS**

**TOTAL 57–64 HOURS**

**PUBLIC RELATIONS, B.S.**

**Required Courses**

- BRDC 127 Intro to Digital Storytelling **3 hours**  
COMM 103 Introduction to Mass Communication **3 hours**  
COMM 397 Communication Research (W) **3 hours**  
COMM 415 Portfolio and Career **1 hour**  
JOUR 105 Writing for the Media **3 hours**  
JOUR 205 News Reporting **3 hours**  
JOUR 208 Publication Tools and Techniques **3 hours**  
JOUR 427 Mass Media Law and Ethics **3 hours**  
PREL 235 Public Relations Principles and Theory **3 hours**  
PREL 455 Public Relations Strategy and Management **3 hours**  
PREL 482 The Public Relations Campaign **3 hours**

- PREL 485 Public Relations Techniques **3 hours**  
 PREL 392 Public Relations Internship **1–3 hours** [2–3 hours required]

**Select fifteen (15) hours from the following:**

- BMKT Any Marketing Class **3 hours**  
 BUAD 233 Introduction to the Nonprofit Sector (SERV-2) **3 hours**  
 COMM 330 Intercultural Communication (I-3b) (W) **3 hours**  
 COMM 336 Interpersonal Communication **3 hours**  
 COMM 340 Group Dynamics and Leadership **3 hours**  
 COMM 406 Persuasion and Propaganda (W) **3 hours**  
 JOUR 242 Intro to Web Design **3 hours**  
 JOUR 313 Publication Editing **3 hours**  
 JOUR 316 Magazine and Feature Article Writing (W) **3 hours**  
 PHTO 125 Introduction to Photography (S-3c) **3 hours**  
 PREL 344 Fundamentals of Advertising **3 hours**  
 PREL 355 Advertising Copywriting **3 hours**  
 PREL 368 Fundraising for Nonprofits (SERV-2) **3 hours**  
**TOTAL 51–52 HOURS**

**Required Cognate**

- BMKT 326 Principles of Marketing **3 hours**

**Strongly Recommended Electives**

- COMM 336 Interpersonal Communication **3 hours**  
 COMM 340 Group Dynamics and Leadership **3 hours**  
 PHTO 315 Photojournalism **3 hours**  
 PREL 368 Fundraising for Nonprofits (SERV-2) **3 hours**  
 Intermediate Foreign Language **6 hours**

**PUBLIC RELATIONS AND BUSINESS ADMINISTRATION, B.S.**

**Public Relations**

**Required Courses**

- COMM 103 Introduction to Mass Communication **3 hours**  
 COMM 397 Communication Research (W) **3 hours**  
 COMM 406 Persuasion and Propaganda (W) **3 hours**  
 JOUR 105 Writing for the Media **3 hours**  
 JOUR 205 News Reporting **3 hours**  
 JOUR 208 Publication Tools and Techniques **3 hours**  
 JOUR 242 Intro to Web Design **3 hours**  
 JOUR 313 Publication Editing **3 hours**  
 PHTO 125 Introduction to Photography (S-3c) **3 hours**  
 PREL 235 Public Relations Principles and Theory **3 hours**  
 PREL 344 Fundamentals of Advertising **3 hours**  
 PREL 482 The Public Relations Campaign **3 hours**  
 PREL 485 Public Relations Techniques **3 hours**

**Select three (3) hours from the following:**

- BUAD 358 Ethical, Social, and Legal Environment of Business (W) **3 hours**  
 JOUR 427 Mass Media Law and Ethics **3 hours**

**TOTAL 42 HOURS**

## **Business Administration**

### **Required Courses**

ACCT 221	Principles of Accounting I (I-5) <b>3 hours</b>
ACCT 222	Principles of Accounting II <b>3 hours</b>
ACCT 321	Managerial Accounting <b>3 hours</b>
BUAD 310	Business Communications (W) <b>3 hours</b>
BUAD 339	Business Law <b>3 hours</b>
BMKT 326	Principles of Marketing <b>3 hours</b>
ECON 224	Principles of Macroeconomics (I-5) <b>3 hours</b>
ECON 225	Principles of Microeconomics <b>3 hours</b>
FNCE 315	Business Finance <b>3 hours</b>
MGNT 334	Principles of Management <b>3 hours</b>
MGNT 350	Managing Business Networks and Operations <b>3 hours</b>
MGNT 364	International Business and Economics <b>3 hours</b>
MGNT 464	Business Strategies (W) <b>3 hours</b>
BUAD 288	Seminar in Business Administration <b>1 hour</b>
or BUAD 488	Seminar in Business Administration <b>1 hour</b>

**TOTAL 40 HOURS**

### **Required Cognates**

BUAD 128	Personal Finance (I-5) <b>3 hours</b>
BUAD 217	Business-Computer Concepts and Applications (I-2b, I-2c) <b>3 hours</b>
BUAD 412	Preparing to Meet the Firms <b>1 hour</b>
MATH 120	Precalculus Algebra (I-2a) <b>3 hours</b>
BUAD 221	Business Statistics <b>3 hours</b>
or MATH 215	Statistics (I-2a) <b>3 hours</b>

**TOTAL 82 HOURS**

*The combined major provides students with the option to develop skills in two fields of study. A student will be assigned an adviser in their first-chosen major and a secondary adviser in the other major.*

## **COMMUNICATION STUDIES, B.A.**

### **Required Courses**

COMM 240	Communication Theory <b>3 hours</b>
COMM 326	Film Evaluation (S-3a) (W) <b>3 hours</b>
COMM 330	Intercultural Communication (I-3b) (W) <b>3 hours</b>
COMM 336	Interpersonal Communication <b>3 hours</b>
COMM 340	Group Dynamics and Leadership <b>3 hours</b>
COMM 397	Communication Research (W) <b>3 hours</b>
COMM 406	Persuasion and Propaganda (W) <b>3 hours</b>
COMM 415	Portfolio and Career <b>1 hour</b>
COMM 103	Introduction to Mass Communication <b>3 hours</b>
or JOUR 105	Writing for the Media <b>3 hours</b>

### **Select nine (9) hours from the following:**

COMM 230	Intro to Acting <b>3 hours</b>
COMM 315	Scriptwriting (W) <b>3 hours</b>
COMM 465	Topics <b>1–3 hours</b> (3 hours required)
COMM 492	Communication Internship <b>1–3 hours</b> (2–3 hours required)
COMM 495	Directed Study <b>1–3 hours</b>
PREL 235	Public Relations Principles and Theory <b>3 hours</b>

COMM 291 Communication Practicum **1–3 hours**  
 or COMM 391 Communication Practicum **1–3 hours**  
 JOUR 175 Communication Workshop **1–3 hours** (1 hour required)  
 or JOUR 475 Communication Workshop **1–3 hours** (1 hour required)  
**TOTAL 34 HOURS**

### Required Cognates

ENGL 313 Expository Writing (S-3c) (W) **3 hours**  
 MATH 215 Statistics (I-2a) **3 hours**  
 PSYC 122 General Psychology (S-2) **3 hours**  
 SOCI 125 Introduction to Sociology (S-2) **3 hours**  
 BRDC 127 Intro to Digital Storytelling **3 hours**  
 or JOUR 208 Publication Tools and Techniques **3 hours**

### Strongly Recommended

Intermediate level modern language **6 hours**

### Optional Intercultural Emphasis

COMM Courses **31–34 hours**

### Required Cognates for Intercultural Emphasis

RELT 458 World Religions (W) (R-4) **3 hours**  
 SOCI 150 Cultural Anthropology (I-3b) (S-2) **3 hours**  
 or PSYC 231 Multicultural Relations (I-3b) **3 hours**  
 or SOCI 230 Multicultural Relations (I-3b) **3 hours**  
**TOTAL 40 HOURS**

### Required non-English language minor for Intercultural Emphasis

A Communication Studies major with an intercultural emphasis will complete a non-English language minor.

Option 1 A language minor with a minimum of nine hours completed at an “overseas” school.

Option 2 A language minor with courses completed on our campus, but with one school year traveling or serving abroad.

**TOTAL 18 HOURS**

## JOURNALISM, B.A.

### Required Core

BRDC 127 Intro to Digital Storytelling **3 hours**  
 COMM 415 Portfolio and Career **1 hour**  
 JOUR 105 Writing for the Media **3 hours**  
 JOUR 205 News Reporting **3 hours**  
 JOUR 242 Intro to Web Design **3 hours**  
 JOUR 342 Interactive Journalism **3 hours**  
 JOUR 427 Mass Media Law and Ethics **3 hours**  
 JOUR 488 Mass Communication and Society (W) **3 hours**  
**TOTAL 22 HOURS**

*In consultation with your adviser select one concentration. You must select at least 12 hours of upper division credit within your concentration.*

## **DIGITAL/BROADCAST CONCENTRATION**

Journalism Core **22 hours**

- BRDC 201 Introduction to Electronic Media **3 hours**
- BRDC 202 Digital Audio Production **3 hours**
- BRDC 227 Multi-Camera Production **3 hours**
- BRDC 314 Broadcast News Writing (W) **3 hours**
- BRDC 327 Advanced Field Production **3 hours**
- BRDC 417 Media Management and Ministry **3 hours**
- BRDC 426 TV News Reporting and Performance **3 hours**

**TOTAL 43 HOURS**

### **Required Cognates**

- COMM 103 Introduction to Mass Communication **3 hours**
- PLSC 254 American National and State Government (I-3b) **3 hours**

### **Recommended Electives**

- COMM 326 Film Evaluation (S-3a) (W) **3 hours**
- ECON 213 Survey of Economics (I-5) **3 hours**
- JOUR 208 Publication Tools and Techniques **3 hours**
- JOUR 342 Interactive Journalism **3 hours**
- JOUR 391 Practicum **1–3 hours** (3 hours required)  
or JOUR 492 Journalism Internship **3 hours**

## **PUBLISHING CONCENTRATION**

Journalism Core **22 hours**

- JOUR 208 Publication Tools and Techniques **3 hours**
- JOUR 313 Publication Editing **3 hours**
- JOUR 316 Magazine and Feature Article Writing (W) **3 hours**
- JOUR 356 Investigative Reporting (W) **3 hours**

**TOTAL 34 HOURS**

### **Required Cognates**

- COMM 103 Introduction to Mass Communication **3 hours**
- PLSC 254 American National and State Government (I-3b) **3 hours**
- Literature Elective excluding COMM 326 **3 hours**
- BRDC/COMM/JOUR/PHOTO Elective **3 hours**

### **Recommended Electives**

- COMM 326 Film Evaluation (S-3a) (W) **3 hours**
- COMM 397 Communication Research (W) **3 hours**
- ECON 213 Survey of Economics (I-5) **3 hours**
- MATH 215 Statistics (I-2a) **3 hours**
- JOUR 391 Practicum **1–3 hours** (3 hours required)  
or JOUR 492 Journalism Internship **3 hours**

**TOTAL 34–43 HOURS**

## **MEDIA TECHNOLOGY, A.S.**

### **Required Courses**

- BRDC 291 Practicum **1–3 hours** (2 hours required)
- COMM 103 Introduction to Mass Communication **3 hours**
- JOUR 208 Publication Tools and Techniques **3 hours**
- JOUR 242 Intro to Web Design **3 hours**



PHTO 125	Introduction to Photography (S-3c) <b>3 hours</b>
TECH 244	Graphic Production <b>3 hours</b>
BRDC 245	Senior Project <b>1 hour</b>
or JOUR 245	Senior Project <b>1 hour</b>

**Select twelve (12) hours from the following:**

BRDC 201	Introduction to Electronic Media <b>3 hours</b>
BRDC 202	Digital Audio Production <b>3 hours</b>
BRDC 227	Multi-Camera Production <b>3 hours</b>
BRDC 327	Advanced Field Production <b>3 hours</b>
CPTR 124	Fundamentals of Programming (S-3d) <b>4 hours</b>
PHTO 315	Photojournalism <b>3 hours</b>
or PHTO 320	Digital Photography <b>3 hours</b>

**TOTAL 30 HOURS**

## ADVERTISING MINOR

### Required Courses

BMKT 328	Sales Management <b>3 hours</b>
PREL 344	Fundamentals of Advertising <b>3 hours</b>
PREL 355	Advertising Copywriting <b>3 hours</b>

**Select nine (9) hours from the following:**

ARTG 332	Advertising Design <b>3 hours</b>
BMKT 326	Principles of Marketing <b>3 hours</b>
COMM 103	Introduction to Mass Communication <b>3 hours</b>
COMM 330	Intercultural Communication (I-3b) (W) <b>3 hours</b>
JOUR 208	Publication Tools and Techniques <b>3 hours</b>
JOUR 242	Intro to Web Design <b>3 hours</b>

**TOTAL 18 HOURS**

## BROADCAST JOURNALISM MINOR

### Required Courses

BRDC 127	Intro to Digital Storytelling <b>3 hours</b>
BRDC 201	Introduction to Electronic Media <b>3 hours</b>
BRDC 202	Digital Audio Production <b>3 hours</b>
BRDC 314	Broadcast News Writing (W) <b>3 hours</b>
JOUR 105	Writing for the Media <b>3 hours</b>

**Select three (3) hours from the following:**

BRDC 417	Media Management and Ministry <b>3 hours</b>
JOUR 427	Mass Media Law and Ethics <b>3 hours</b>
JOUR 488	Mass Communication and Society (W) <b>3 hours</b>

**TOTAL 18 HOURS**

## COMMUNICATION STUDIES MINOR

### Required Courses

COMM 240	Communication Theory <b>3 hours</b>
COMM 336	Interpersonal Communication <b>3 hours</b>
COMM 406	Persuasion and Propaganda (W) <b>3 hours</b>

**Select nine (9) hours from the following:**

- COMM 230 Intro to Acting **3 hours**
- COMM 315 Scriptwriting (W) **3 hours**
- COMM 326 Film Evaluation (S-3a) (W) **3 hours**
- COMM 330 Intercultural Communication (I-3b) (W) **3 hours**
- COMM 340 Group Dynamics and Leadership **3 hours**
- COMM 397 Communication Research (W) **3 hours**
- COMM 291 Communication Practicum **1–3 hours**
  - or COMM 391 Communication Practicum **1–3 hours**
  - or COMM 495 Directed Study **1–3 hours**

**TOTAL 18 HOURS**

## **INTERCULTURAL COMMUNICATION MINOR**

### **Required Courses**

- COMM 240 Communication Theory **3 hours**
- COMM 330 Intercultural Communication (I-3b) (W) **3 hours**
- COMM 336 Interpersonal Communication **3 hours**
- SOCI 150 Cultural Anthropology (I-3b) (S-2) **3 hours**
  - or SOCI 230 Multicultural Relations (I-3b) **3 hours**

**Select six (6) hours:**

- GEOG 204 World Geography (I-3b) (SERV-2) **3 hours**
- SOCI 150 Cultural Anthropology (I-3b) (S-2) **3 hours**
- SOCI 230 Multicultural Relations (I-3b) **3 hours**
- COMM 291 Communication Practicum **1–3 hours**
  - or COMM 391 Communication Practicum **1–3 hours**
- COMM 295 Directed Study **1–3 hours** (non-Anglo-American topic)
  - or COMM 495 Directed Study **1–3 hours** (non-Anglo-American topic)
- GPSS 250 Cross-Cultural Experience **3 hours**
  - or RELT 458 World Religions (W) (R-4) **3 hours**

**TOTAL 18 HOURS**

## **JOURNALISM (NEWS EDITORIAL) MINOR**

### **REQUIRED COURSES**

- JOUR 105 Writing for the Media **3 hours**
- JOUR 205 News Reporting **3 hours**
- JOUR 208 Publication Tools and Techniques **3 hours**
- JOUR 313 Publication Editing **3 hours**
- JOUR 316 Magazine and Feature Article Writing (W) **3 hours**
  - or JOUR 356 Investigative Reporting (W) **3 hours**
- JOUR 427 Mass Media Law and Ethics **3 hours**
  - or JOUR 488 Mass Communication and Society (W) **3 hours**

**TOTAL 18 HOURS**

## **MEDIA PRODUCTION MINOR**

### **Required Courses**

- ARTF 215 Lighting **3 hours**
- BRDC 201 Introduction to Electronic Media **3 hours**

BRDC 202	Digital Audio Production	<b>3 hours</b>
BRDC 227	Multi-Camera Production	<b>3 hours</b>
BRDC 327	Advanced Field Production	<b>3 hours</b>
BRDC/COMM/JOUR	Elective	<b>1 hour</b>

**Select three (3) hours from the following:**

BRDC 417	Media Management and Ministry	<b>3 hours</b>
JOUR 427	Mass Media Law and Ethics	<b>3 hours</b>
JOUR 488	Mass Communication and Society (W)	<b>3 hours</b>
<b>TOTAL</b>		<b>19 HOURS</b>

## PHOTOGRAPHY MINOR

### Required Courses

JOUR 208	Publication Tools and Techniques	<b>3 hours</b>
PHTO 125	Introduction to Photography (S-3c)	<b>3 hours</b>
PHTO 315	Photojournalism	<b>3 hours</b>
PHTO 320	Digital Photography	<b>3 hours</b>

**Select six (6) hours from the following:**

ARTF 215	Lighting	<b>3 hours</b>
BRDC 127	Intro to Digital Storytelling	<b>3 hours</b>
BRDC 227	Multi-Camera Production	<b>3 hours</b>
BRDC 327	Advanced Field Production	<b>3 hours</b>
PHTO 291	Practicum	<b>1–3 hours</b>
or PHTO 391	Practicum	<b>1–3 hours</b>
<b>TOTAL</b>		<b>18 HOURS</b>

## PUBLIC RELATIONS MINOR

### Required Courses

JOUR 105	Writing for the Media	<b>3 hours</b>
PREL 235	Public Relations Principles and Theory	<b>3 hours</b>
PREL 482	The Public Relations Campaign	<b>3 hours</b>

**Select nine (9) hours which three (3) hours must be upper division:**

JOUR 205	News Reporting	<b>3 hours</b>
JOUR 208	Publication Tools and Techniques	<b>3 hours</b>
JOUR 313	Publication Editing	<b>3 hours</b>
JOUR 465	Topics in Communication	<b>1–3 hours</b>
PREL 344	Fundamentals of Advertising	<b>3 hours</b>
PREL 368	Fundraising for Nonprofits (SERV-2)	<b>3 hours</b>
COMM 406	Persuasion and Propaganda (W)	<b>3 hours</b>
PREL 485	Public Relations Techniques	<b>3 hours</b>
<b>TOTAL</b>		<b>18 HOURS</b>

# Mathematics

**Chair:** Kevin Brown

**Faculty:** Patricia Anderson, Adam Heck, Ronald D. Johnson

**Program Coordinator:** Kevin Brown

Throughout recorded history mathematics and mathematical thinking have influenced man's culture to an extent that even many well-educated people fail to appreciate. The Elements of Euclid, the invention of a place-value numeration system, the invention of the calculus, the development of statistical inference, and more recently the development of computers, to name just a few, are mathematical contributions to civilization which have significantly affected the philosophies, commerce, science, and technology of mankind.

The Mathematics Department seeks to transmit this mathematical heritage to the students of Southern Adventist University by (1) introducing students to mathematical concepts and techniques and the disciplined, logical thinking required to successfully apply them to a variety of problem-solving experiences, (2) providing a stage in the formal education of professional mathematicians, (3) educating teachers of mathematics, and (4) providing appropriate courses for users of mathematics.

## Mission Statement

In harmony with Southern Adventist University's Christian environment, the Mathematics Department seeks to provide students with mathematical skills and concepts appropriate to their chosen field of study and to prepare mathematics majors and minors for distinguished professional performance in mathematics or other fields that require a strong mathematical background.

## Assessment

All mathematics majors are required to take the Educational Testing Service Major Field Achievement Test in mathematics during their senior year. The results of this examination are used in ongoing review of the departmental curriculum.

## MATHEMATICS, B.S.

### Required Courses

MATH 191	Calculus I <b>4 hours</b>
MATH 192	Calculus II <b>4 hours</b>
MATH 201	Intermediate Linear Algebra <b>3 hours</b>
MATH 218	Calculus III <b>4 hours</b>
MATH 219	Set Theory and Logic <b>3 hours</b>
MATH 317	Complex Variables <b>3 hours</b>
MATH 318	Abstract Algebra <b>3 hours</b>
MATH 411	Intermediate Analysis I <b>3 hours</b>
MATH 412	Intermediate Analysis II <b>3 hours</b>
MATH 485	Mathematics Seminar (W) <b>1 hour</b>
Math Electives (5 UD) <b>9 hours</b>	

**TOTAL 40 HOURS**

See *General Degree and General Education requirements*. Note especially requirements of *make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits*.

### Required Cognates

#### Select Option 1, Option 2 or Option 3

##### Option 1

- CPTR 124 Fundamentals of Programming (S-3d) **4 hours**
- CPTR 215 Fundamentals of Software Design **4 hours**

##### Option 2

- PHYS 211 General Physics I (I-4d) **3 hours**
- PHYS 212 General Physics II (I-4d) **3 hours**
- PHYS 213 General Physics Laboratory I **1 hour**
- PHYS 214 General Physics Laboratory II **1 hour**

##### Option 3

- PHYS 221 University Physics I (I-4d) **4 hours**
- PHYS 222 University Physics II (I-4d) **4 hours**
- PHYS 223 University Physics Laboratory I **1 hour**
- PHYS 224 University Physics Laboratory II **1 hour**

## MATHEMATICS, B.A.

### Required Courses

- MATH 191 Calculus I **4 hours**
- MATH 192 Calculus II **4 hours**
- MATH 201 Intermediate Linear Algebra **3 hours**
- MATH 218 Calculus III **4 hours**
- MATH 219 Set Theory and Logic **3 hours**
- MATH 312 History of Mathematics (W) **3 hours**
- MATH 318 Abstract Algebra **3 hours**
- MATH 411 Intermediate Analysis I **3 hours**
- UD Math Electives **5 hours**
- TOTAL 32 HOURS**

### Required Cognates

#### Select Option 1, Option 2 or Option 3

##### Option 1

- CPTR 124 Fundamentals of Programming (S-3d) **4 hours**

##### Option 2

- PHYS 211 General Physics I (I-4d) **3 hours**
- PHYS 213 General Physics Laboratory I **1 hour**

##### Option 3

- PHYS 221 University Physics I (I-4d) **4 hours**
- PHYS 223 University Physics Laboratory I **1 hour**

## MATHEMATICS, TEACHER CERTIFICATION, B.A.

Secondary certification in Mathematics requires a baccalaureate degree and completion of professional education courses (see Professional Education) for licensure. Students preparing for secondary teacher certification must

include MATH 215 Statistics (I-2a), MATH 312 History of Mathematics (W), and MATH 415 Geometry. See further explanations in the School of Education and Psychology section.

The student must apply for Initial Admission to the Teacher Education Program (usually by the end of the sophomore year) after completing all requirements as outlined under ADMISSION PROCEDURES in the School of Education and Psychology section of the *Catalog*. Initial admission is required before the student can enroll in upper division education courses.

The student must also complete an application and all other requirements for Admission to Student Teaching. Prior to the professional semester, the student must take and pass the PRAXIS II licensure exam—both the appropriate section of the Principles of Learning and Teaching, and the particular specialty test(s) for the licensure area(s).

An endorsement to teach mathematics as an additional field may be obtained by completing a major and secondary certification in another field and by completing a minor in mathematics that includes the following courses (24 hours): MATH 191 Calculus I, MATH 192 Calculus II, MATH 201 Intermediate Linear Algebra, MATH 215 Statistics (I-2a), MATH 219 Set Theory and Logic, MATH 415 Geometry, one three-hour upper-division MATH course, and EDUC 342 Curriculum and Content Methods.

## **MATHEMATICS MINOR**

### **Required Courses**

MATH 191	Calculus I	<b>4 hours</b>
MATH 192	Calculus II	<b>4 hours</b>
	Math Electives (6 UD)	<b>10 hours</b>
<b>TOTAL</b>		<b>18 HOURS</b>

## **Actuarial Studies**

Students interested in the actuarial profession should consult with departmental faculty regarding appropriate courses from the School of Business and Management to include in their course of study.

# Modern Languages

**Chair:** Carlos H. Parra

**Faculty:** Pierre Nzokizwa, Adrienne Royo

**Adjunct Faculty:** Darwin Ayscue, Claryce Caviness, Jeffrey Jordan, Gwendolyn Smith

## **Program Coordinators:**

French, Pierre Nzokizwa

French, Teacher Certification, Pierre Nzokizwa

International Studies, Carlos Parra

Spanish, Adrienne Royo

Spanish, Teacher Certification, Adrienne Royo

The Modern Languages Department at Southern Adventist University combines language study with experience abroad and academic courses. Southern offers interdisciplinary degrees in French, French Teaching, International Studies, Spanish, and Spanish Teaching. The International Studies degree will enhance students' ability to live and work in an international setting. Students discover French, German, Italian, and Spanish not only as living languages but also as reflections of many cultures and peoples.

The Modern Languages Department also offers majors in French and Spanish, minors in Arabic, French, German, Italian, and Spanish; and language courses in American Sign Language, for those students wishing to gain a deeper understanding of cultures within a global context through the study of language, literature, and society. The French and Spanish majors also provide the necessary background for graduate study. In addition, the department offers French and Spanish Teaching Licensure majors for students interested in secondary education. Students seeking teacher certification should also pursue the teaching major.

The ability to communicate with people is increasingly essential in today's global community, and knowledge of other cultures and cultural experiences should be a key part of the background of a well-educated individual, particularly of those with a sense of world mission. By introducing students to another language and giving them opportunities and exposure to experience other cultures, the Modern Languages Department at Southern Adventist University strives to help students to overcome stereotypes and prejudices, fosters a spirit of appreciation and inclusiveness, and facilitates easier communication and interaction with persons of other languages and cultures.

## **Mission Statement**

The Modern Languages Department at Southern Adventist University provides a Christian learning environment that enhances the understanding of other cultures, and promotes a global dialogue by widening horizons, broadening perspectives, and deepening self-understanding as a worldwide family.

## **Assessment**

The assessment of majors in International Studies consists of three basic sections: First the candidates write an evaluation of the departmental program to state their perception of the program's effectiveness in achieving its

objectives. Second, the candidates take a departmental exam to demonstrate their degree of success in achieving near native mastery of the target language in the areas of listening, reading, writing, and speaking. Third, the candidates take an oral examination focusing on their knowledge and appreciation of the culture of the peoples who speak the target language. A key element of this interview is the candidate's ability to compare and contrast the target culture with their own, and to show how they relate, contribute to, and enrich each other. The candidate will earn a minimum grade of "B" (83-86%) on the DEE.

The assessment of students majoring in Spanish, and Spanish Teaching consists of a departmental oral and written examination.

Candidates will earn a minimum grade of "B-" (80-83%) as they demonstrate their knowledge and appreciation of Spanish speaking cultures, their literary expression, and the ability to understand many of the complexities affecting and resulting from the Spanish, and Spanish-American experience in their own context and when in contact with other cultures not only in the American continent, but in relation to global society. The assessment of students majoring in French and French Teaching is also a departmental oral and written examination. Candidates will demonstrate a passing degree of knowledge and appreciation of French speaking cultures, their literary expression, and the ability to understand the complexities in their own context not only in Europe and the Americas, but as part of global society. This required exam is the MCE.

## **Adventist Colleges Abroad (ACA)**

Southern Adventist University is a member of Adventist Colleges Abroad (ACA), a consortium of colleges and universities operated by the Board of Higher Education of the North American Division of the Seventh-day Adventist Church. This consortium affords opportunity to qualified students for international study while completing the requirements of their programs at their home campus. The program allows students to immerse themselves in the culture and life of the host country and gain various levels of fluency in the language; to mature socially, spiritually, and intellectually; and to develop sensitivity to cultural differences and a sense of responsibility for and mission to other societies of the world. The following institutions are internationally affiliates of ACA offering academic year programs of study:

Argentina:	Universidad adventista del Plata, Libertador San Martin: Spanish Language, Latin American Culture, and Latin American Literature
Austria:	Seminar Schloss Bogenhofen, St. Peter am Hart: German Language, Culture, and Literature
England:	Newbold College, Binfield, United Kingdom: English Language, Culture, and Literature
France:	Campus Adventiste du Saleve, Collonges-sous Saleve: French Language, Culture, and Literature
Germany:	Friedensau Adventist University, Friedensau bei Burg: German Language, Culture, and Literature



Italy:	Istituto Avventista Villa Aurora, Florence: Italian Language, Culture, and Literature
Lebanon:	Middle East University, Beirut; Arabic Language, Culture, and Literature
Spain:	Seminario Adventista Espanol, Sagunto: Spanish Language, Culture, and Spanish Literature

In addition to academic-year programs, ACA offers six to eight-week summer terms at the following international study centers:

Argentina:	Universidad adventista del Plata, Libertador San Martin: Spanish Language, Latin American Culture, and Literature
Austria:	Seminar Schloss Bogenhofen, St. Peter am Hart: German
Brazil:	Instituto Adventista de Ensino, Sao Paulo: Portuguese
France:	E. Centre Universitaire et Pedagogique du Saleve, Collonges-sous-Saleve: French
Greece:	La Sierra University Study Center, Athens: Intermediate New Testament Greek, Beginning Biblical Hebrew
Israel:	Middle East University, Lebanon; Arabic
Italy:	Istituto Avventista Villa Aurora, Florence: Italian
Japan:	Saniku Gakuin College: Japanese
Spain:	Colegio Adventista de Sagunto, Sagunto: Spanish
Thailand:	Asia-Pacific International University, Saraburi: Mandarin Chinese
Ukraine:	Ukrainian College of Arts and Sciences, Kiev: Russian

Applicants for international study need not be language majors or minor. Students majoring in various disciplines that allow for one or more elective years within the four-years curriculum may study in the year-abroad and summer sessions programs without losing credits or prolonging time before graduation by carefully planning the year(s) preceding and following their international study experience. Prerequisites for admission to ACA study abroad programs are as follows:

1. Admission as a regular student to Southern Adventist University for the summer or academic year abroad.
2. Competence in the language of the host country for Argentina, France, and Spain (minimum: one year of college or two years of secondary study with a language GPA of 3.00). This level of language competence is prerequisite to one's being considered for admission. Language competence is encouraged but not required of students enrolling in academic year programs in Austria, Germany, Italy, or Lebanon or of students in summer programs.

3. An overall college or university GPA of 2.50.
4. A good citizenship record that gives evidence of better-than-average maturity, adjustability, and congeniality.
5. Presentation of the application with all required information and signatures (academic and financial arrangements) to Southern Adventist University Admissions Office by May 1 (academic year).
6. Attendance at an ACA orientation meeting during the month of April at Southern Adventist University.

First-Year students with competence in the language are not specifically excluded from ACA academic year programs, but the course of study is usually of more benefit to sophomores and juniors, especially those who plan to major or minor in the language. Although enrolled on an international campus, students who are registered at Southern Adventist University; are considered in-residence at this university; and are eligible for all external grants, loans, scholarships, and financial aid offered to students in attendance at Southern Adventist University. Credit earned abroad is recorded each term in Southern Adventist University Records Office.

The Adventist Colleges Abroad program offers a wide variety of language courses at intermediate and advanced levels concentrating on grammar, orthography, composition, phonetics, conversation, reading, pronunciation, literature, culture, civilization, and folklore, as well as courses in art, education, geography, history, music, physical education, and religion. Some internships are available. Please see ACA bulletin or go to <http://aca-noborders.org>.

Credit earned abroad is recorded each term, but certain courses may not be transferable as specific general education credit. Contact Records and Advisement or your department/school for more information regarding transfer equivalencies.

Applicants must consult with their major advisers, the Modern Languages Department faculty, and the ACA coordinator before enrollment. Southern Adventist University personnel advise students about courses to take abroad and determine how the credits will apply toward graduation requirements. Those who carefully plan their academic-year programs with Southern Adventist University advisers may earn (between 26-32) semester hours toward a baccalaureate degree. ACA courses may apply toward the major, minor, general education, and elective requirements; credit is awarded on the basis of course prefix.

ACA courses are in high demand; applications are processed in the order received. Applications are available at the Modern Language Department or may be downloaded at [www.aca-noborders.org](http://www.aca-noborders.org).

**For further information:**

Adventist Colleges Abroad  
12501 Old Columbia Pike  
Silver Spring, MD 20904-6600  
(301) 680-6463  
E-mail: [aca@nad.adventist.org](mailto:aca@nad.adventist.org)  
Website: [www.aca-noborders.org](http://www.aca-noborders.org)

## Language Placement

Students who have had previous work in the French and/ or Spanish languages wishing to take a course in those languages must take the Modern Languages Department Placement Examination. Please, visit [www.southern.edu/modernlanguages](http://www.southern.edu/modernlanguages) for further information.

Students with a Spanish speaking background taking Spanish will often enroll in SPAN 243 Conversation and Composition. However, some students enroll at the intermediate level after the Placement Examination while others place high enough to take the Challenge examination for the intermediate level (3+3 SH) . These examinations are offered only at the beginning of each semester. Students are allowed to challenge the same exam only once. Please, visit [www.southern.edu/modernlanguages](http://www.southern.edu/modernlanguages) for further information.

Those unsure of what course to enroll in should consult with the Modern Languages Department Faculty at any time.

## Major Programs

**Degrees.** B.A. French, International Studies, Spanish, French and Spanish Teaching.

**Placement Level.** Students who intend to enroll in a French or Spanish language course, who have had any background in the language must take the “Placement Examination.”

**Exceptions.** Students who are native speakers or who have otherwise acquired advanced language proficiency are encouraged to take the “Challenge Examination” offered by the department. Otherwise, students with no background in a language must begin at the 101 level.

**Departmental Majors.** The Modern Languages Department offers language courses to satisfy the B.A. language requirement. A major in International Studies with emphasis in Spanish, French, German or Italian is offered. Majors in French, Spanish, and French or Spanish Teaching are also offered.

Students planning majors or minors should contact the department early in their studies for a list of required courses. Those students with questions about their major or minor should refer to the *Catalog* and/or contact Modern Languages faculty. Those students with transferred language credit from another college or university should meet with a faculty adviser early in their studies regarding major or minor course equivalents.

Students must earn a grade of C or better in all course work that is to count toward a department major or minor.

**Departmental Minors.** The department offers minors in Arabic, Spanish, French, German, and Italian.

**Language Emphasis.** American Sign Language (ASL).

**Teaching Major, Certification.** Students planning to obtain Teaching certification must include the required professional education courses and any additional General Education requirements in their program as outlined in the School of Education and Psychology section of this *Catalog* under “Requirements for Certification.”

The student must apply for initial admission to the Teacher Education Program (usually by the end of the sophomore year) after completing all requirements as outlined under ADMISSION PROCEDURES in the School of Education and Psychology section of the Catalog. Initial admission is required before a student can enroll in upper division education courses.

The student must also complete an application and all other requirements for Admission to Student Teaching. Prior to the professional semester, the student must take and pass the PRAXIS II licensure exam—both the appropriate section of the principles of Learning and Teaching, and particular specialty test(s) for the licensure area(s).

Students returning from any of Adventist Colleges Abroad (ACA), after fulfilling studies in French, Spanish, German, or Italian languages must meet with Modern Languages faculty upon returning to Southern. This meeting is an assessment of the course work finished abroad, and advising of subsequent required course work towards a major offered at Southern.

## International Studies Majors

ALL students majoring in International Studies with emphasis in French, German, Italian, or Spanish MUST take a “Departmental Exit Examination” (DEE) prior to graduation. This examination evaluates candidate’s writing, reading, speaking, and listening skills in the language of study. Students will earn a minimum grade of “B” in this examination. Also, each student must take MDLG 350/MDLG 450 (1+1) to maintain language proficiency in preparation for the DEE as well as career preparatory. To this end all students must also take MDLG 490 (1 hr) to prepare for such examination.

## French and Spanish Majors

ALL Spanish/French majors who studied abroad for one (1) full academic year at any of our ACA locations (Argentina, France, or Spain), who took a Culture and Civilization course equivalent to 3 SH, a literature course also equivalent to 3 SH, upon returning to Southern will need to take three (3) upper division courses in their majors from the required course list, SPAN 490/FREN 490, and cognate courses, if necessary. These courses MUST be taken at Southern. These students will earn a minimum grade of “C” (2.00) in all courses.

If any Spanish/French major has not taken any of the courses mentioned above, they MUST take four (4) upper division courses from the Modern Languages Department at Southern, SPAN 490/FREN 490 and cognate courses, if necessary. These students will earn a minimum grade of “C” (2.00) in all courses. ALL SPAN/FREN majors MUST pass a written/oral “Major Comprehensive Examination” (MCE) during their last semester and prior to graduation. This examination evaluates candidate’s writing, reading, speaking, and listening skills in the language of study, and provides a platform for analysis and discussion of courses’ content in their respective majors. Students will earn a minimum grade of “B-” in this examination

## FRENCH, B.A.

### Required Core

ELIT 216	Approaches to Literature (S-3a) <b>3 hours</b>
FREN 490	Comprehensive Examination Preparation <b>1 hour</b>

**Required Courses****Select 27 hours from the following:**

FREN 207	Intermediate French I (I-3c) <b>3 hours</b>
FREN 208	Intermediate French II (I-3c) <b>3 hours</b>
FREN 244	French Composition and Conversation <b>3 hours</b>
FREN 305	French for Business <b>3 hours</b>
FREN 344	Advanced French Composition and Conversation <b>3 hours</b>
FREN 350	French Linguistics <b>3 hours</b>
FREN 353	Contemporary French Culture and Civilization (SERV-2) <b>3 hours</b>
FREN 357	Survey of French Medieval and Renaissance Literature (S-3a) (W) <b>3 hours</b>
FREN 358	Survey of French 17th and 18th Centuries Literature (S-3a) (W) <b>3 hours</b>
FREN 458	Survey of French 19th and 20th Centuries Literature (S-3a) (W) <b>3 hours</b>
FREN 459	Francophone Cultures and Literatures (S-3a) (W) <b>3 hours</b>
MDLG 230	Critical Methods in Languages <b>3 hours</b>

**Select three (3) hours from the following:**

ARTH 342	Renaissance Art History (S-3b) (W) <b>3 hours</b>
HIST 375	Ancient Mediterranean World (I-3a) (W) <b>3 hours</b>
HIST 471	Classics of Western Thought I (I-3a) (W) <b>3 hours</b>
HIST 472	Classics of Western Thought II (I-3a) (W) <b>3 hours</b>

**TOTAL 34 HOURS**

Students majoring in French are required to travel abroad for one (1) academic year to conduct studies at ACA (Collonges, France). They are also highly recommended to fulfill this requirement during their sophomore year. Students who minor in French are **STRONGLY ADVISED** to study one semester or one summer at ACA (Collonges, France).

**NOTE:** French-speaking students who completed secondary education in France or in a French-speaking country are exempt from this requirement.

**FRENCH, TEACHER CERTIFICATION, 7–12, B.A.****Required Core**

ELIT 216	Approaches to Literature (S-3a) <b>3 hours</b>
FREN 207	Intermediate French I (I-3c) <b>3 hours</b>
FREN 208	Intermediate French II (I-3c) <b>3 hours</b>
FREN 244	French Composition and Conversation <b>3 hours</b>
FREN 344	Advanced French Composition and Conversation <b>3 hours</b>
FREN 350	French Linguistics <b>3 hours</b>
FREN 353	Contemporary French Culture and Civilization (SERV-2) <b>3 hours</b>
FREN 490	Comprehensive Examination Preparation <b>1 hour</b>
MDLG 230	Critical Methods in Languages <b>3 hours</b>

**Select three (3) hours from the following:**

FREN 357	Survey of French Medieval and Renaissance Literature (S-3a) (W) <b>3 hours</b>
FREN 358	Survey of French 17th and 18th Centuries Literature (S-3a) (W) <b>3 hours</b>
FREN 458	Survey of French 19th and 20th Centuries Literature (S-3a) (W) <b>3 hours</b>
FREN 459	Francophone Cultures and Literatures (S-3a) (W) <b>3 hours</b>

**Select three (3) hours from the following:**

ARTH 342	Renaissance Art History (S-3b) (W) <b>3 hours</b>
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HIST 386 Medieval Europe (I-3a) (W) **3 hours**  
**TOTAL 31 HOURS**

Students majoring in French who are seeking teaching certification are required to travel abroad for one (1) academic year to conduct studies at ACA (Collonges, France). They are also highly recommended to fulfill this requirement during their sophomore year. Students who minor in French are **STRONGLY ADVISED** to study one semester or one summer at ACA (Collonges, France).

**NOTE:** *French-speaking students who completed secondary education in France or in a French-speaking country are exempt from this requirement.*

## **INTERNATIONAL STUDIES, FRENCH EMPHASIS, B.A.**

### **Language Component**

Elementary level of language (French, German, Italian or Spanish) prior to travel to ACA is strongly recommended **6 hours**

One year of Inter-Adv language courses at ACA including 3 semester hours in Culture and Civilization and 3 semester hours in Literature/History **18 hours**

**TOTAL 24 HOURS**

### **Humanities Component (at Southern)**

COMM 330 Intercultural Communication (I-3b) (W) **3 hours**

ELIT 445 Ancient Classics (S-3a) (W) **3 hours**

MDLG 350 Global Citizenship Seminar I **1 hour**

MDLG 450 Global Citizenship Seminar II **1 hour**

MDLG 490 MLD Exit Examination (DEE) **1 hour**

HIST 387 Europe in the Nineteenth Century (I-3a) (W) **3 hours**

or HIST 388 Contemporary Europe (I-3a) (W) **3 hours**

**TOTAL 12 HOURS**

### **Required Courses**

FREN 207 Intermediate French I (I-3c) **3 hours**

FREN 208 Intermediate French II (I-3c) **3 hours**

FREN 221 Intermediate Composition\*

FREN 251 Intermediate Oral Exp\*

FREN 321 Adv Composition I\*

FREN 331 Orthography

FREN 341 Adv Grammar\*

FREN 351 Adv Oral Expression I\*

FREN 361 Text Analysis\*

FREN 376 French Civilization\*

**TOTAL 36 HOURS**

*\*See Adventist Colleges Abroad Catalog for course descriptions*

## **INTERNATIONAL STUDIES, GERMAN EMPHASIS, B.A.**

### **Language Component**

Elementary level of language (French, German, Italian or Spanish) prior to travel to ACA is strongly recommended **6 hours**

One year of Interim-Adv language courses at ACA including 3 semester hours in Culture and Civilization and 3 semester hours in Literature/History **18 hours**

**TOTAL 24 HOURS**

### Humanities Component (at Southern)

COMM 330	Intercultural Communication (I-3b) (W)	<b>3 hours</b>
ELIT 445	Ancient Classics (S-3a) (W)	<b>3 hours</b>
MDLG 350	Global Citizenship Seminar I	<b>1 hour</b>
MDLG 450	Global Citizenship Seminar II	<b>1 hour</b>
MDLG 490	MLD Exit Examination (DEE)	<b>1 hour</b>
HIST 387	Europe in the Nineteenth Century (I-3a) (W)	<b>3 hours</b>
or HIST 388	Contemporary Europe (I-3a) (W)	<b>3 hours</b>

**TOTAL 12 HOURS**

### Required Courses (at Bogenhofen, Austria)

GRMN 207	Intermediate German I (I-3c)	<b>3 hours</b>
GRMN 208	Intermediate German II (I-3c)	<b>3 hours</b>
GRMN 211	Intermediate Written Expression*	
GRMN 221	Intermediate Reading Comprehension*	
GRMN 254	Survey of German Lit*	
GRMN 306	Advanced Oral Expression*	
GRMN 311	Advanced Written Expression*	
GRMN 325	Advanced Reading Comprehension*	
HIST 267	European Civilization*	

**TOTAL 36 HOURS**

### Required Courses (at Friedensau, Germany)

GRMN 207	Intermediate German I (I-3c)	<b>3 hours</b>
GRMN 208	Intermediate German II (I-3c)	<b>3 hours</b>
GRMN 231	Intermediate Oral Expression*	
GRMN 257	German Literature*	
GRMN 281	Cultural Studies*	
GRMN 309	Advanced Grammar*	
GRMN 318	Advanced Comprehensive German*	
GRMN 328	Advanced Reading*	
HIST 288	German History*	

**TOTAL 36 HOURS**

*\*See Adventist Colleges Abroad Catalog for course descriptions*

## INTERNATIONAL STUDIES, ITALIAN EMPHASIS, B.A.

### Language Component

Elementary level of language (French, German, Italian or Spanish) prior to travel to ACA is strongly recommended **6 hours**

One year of Interim-Adv language courses at ACA including 3 semester hours in Culture and Civilization and 3 semester hours in Literature/History **18 hours**

**TOTAL 24 HOURS**

### Humanities Component (at Southern)

COMM 330	Intercultural Communication (I-3b) (W)	<b>3 hours</b>
ELIT 445	Ancient Classics (S-3a) (W)	<b>3 hours</b>
MDLG 350	Global Citizenship Seminar I	<b>1 hour</b>

MDLG 450	Global Citizenship Seminar II	<b>1 hour</b>
MDLG 490	MLD Exit Examination (DEE)	<b>1 hour</b>
HIST 387	Europe in the Nineteenth Century (I-3a) (W)	<b>3 hours</b>
or HIST 388	Contemporary Europe (I-3a) (W)	<b>3 hours</b>
<b>TOTAL 12 HOURS</b>		

### Required Courses

ITAL 207	Intermediate Italian I (I-3c)	<b>3 hours</b>
ITAL 208	Intermediate Italian II (I-3c)	<b>3 hours</b>
GEOG 310	Geography of Italy*	
ITLN 212	Italian Culture*	
ITLN 313	Italian Culture II*	
ITLN 351	Italian Grammar*	
ITLN 361	Italian Composition*	
ITLN 303	Italian History*	
ITLN 333	Italian Literature*	
ITLN 230/330	History of Italian Art*	
ITLN 360	Italy and Its Culture in British and American Literature*	
ITLN 381	Advanced Conversation*	
<b>TOTAL 36 HOURS</b>		

\*See *Adventist Colleges Abroad Catalog* for course descriptions

## INTERNATIONAL STUDIES, SPANISH EMPHASIS, B.A.

### Language Component

Elementary level of language (French, German, Italian or Spanish) prior to travel to ACA is strongly recommended **6 hours**

One year of Interm-Adv language courses at ACA including 3 semester hours in Culture and Civilization and 3 semester hours in Literature/History **18 hours**

**TOTAL 24 HOURS**

### Humanities Component (at Southern)

COMM 330	Intercultural Communication (I-3b) (W)	<b>3 hours</b>
ELIT 445	Ancient Classics (S-3a) (W)	<b>3 hours</b>
MDLG 350	Global Citizenship Seminar I	<b>1 hour</b>
MDLG 450	Global Citizenship Seminar II	<b>1 hour</b>
MDLG 490	MLD Exit Examination (DEE)	<b>1 hour</b>
HIST 387	Europe in the Nineteenth Century (I-3a) (W)	<b>3 hours</b>
or HIST 388	Contemporary Europe (I-3a) (W)	<b>3 hours</b>
<b>TOTAL 12 HOURS</b>		

### Required Courses

SPAN 207	Intermediate Spanish I (I-3c) (SERV-2)	<b>3 hours</b>
SPAN 208	Intermediate Spanish II (I-3c) (SERV-2)	<b>3 hours</b>
SPAN 261	Interm Spanish Composition*	
SPAN 271	Interm Span Conversation*	
SPAN 351	Adv Spanish Grammar*	
SPAN 361	Adv Spanish Composition*	
SPAN 371	Adv Spanish Conversation*	



**ACA in Spain**

- SPAN 312 Spain and Its Culture\*  
SPAN 331 History of Spanish Lit \*

**ACA in Argentina**

- HIST 345 History of Argentina\*  
SPAN 332 Latin American Literature\*

**TOTAL 36 HOURS**

\*See *Adventist Colleges Abroad Catalog* for course descriptions

**SPANISH, B.A.****Required Courses**

- ELIT 216 Approaches to Literature (S-3a) **3 hours**  
MDLG 230 Critical Methods in Languages **3 hours**  
SPAN 207 Intermediate Spanish I (I-3c) (SERV-2) **3 hours**  
SPAN 208 Intermediate Spanish II (I-3c) (SERV-2) **3 hours**  
SPAN 243 Composition and Conversation **3 hours**  
SPAN 354 Hispanic Culture and Civilization (SERV-2) **3 hours**  
SPAN 355 Survey of Spanish Literature (S-3a) (W) **3 hours**  
SPAN 356 Survey of Spanish-American Literature (S-3a) (W) **3 hours**  
SPAN 490 Comprehensive Examination Preparation **1 hour**  
SPAN 454 Latino Literature (S-3a) (W) **3 hours**  
or ELIT 454 Latino Literature (S-3a) (W) **3 hours**

**Select six (6) hours from the following:**

- HIST 351 Colonial Latin America (I-3a) (W) **3 hours**  
HIST 375 Ancient Mediterranean World (I-3a) (W) **3 hours**  
HIST 386 Medieval Europe (I-3a) (W) **3 hours**  
HIST 471 Classics of Western Thought I (I-3a) (W) **3 hours**  
HIST 472 Classics of Western Thought II (I-3a) (W) **3 hours**

**TOTAL 34 HOURS**

Students majoring in Spanish are required to travel abroad for one (1) academic year, to conduct studies at one of the ACA locations (Argentina or Spain). It is highly recommended that students fulfill this requirement during their sophomore year.

**NOTE:** Native Spanish-speaking students who completed secondary education in a Spanish-speaking country are exempt from this requirement.

**SPANISH, TEACHER CERTIFICATION, 7-12, B.A.****Required Courses**

- ELIT 216 Approaches to Literature (S-3a) **3 hours**  
MDLG 230 Critical Methods in Languages **3 hours**  
SPAN 207 Intermediate Spanish I (I-3c) (SERV-2) **3 hours**  
SPAN 208 Intermediate Spanish II (I-3c) (SERV-2) **3 hours**  
SPAN 243 Composition and Conversation **3 hours**  
SPAN 354 Hispanic Culture and Civilization (SERV-2) **3 hours**  
SPAN 355 Survey of Spanish Literature (S-3a) (W) **3 hours**  
SPAN 356 Survey of Spanish-American Literature (S-3a) (W) **3 hours**  
SPAN 490 Comprehensive Examination Preparation **1 hour**

SPAN 454 Latino Literature (S-3a) (W) **3 hours**  
 or ELIT 454 Latino Literature (S-3a) (W) **3 hours**

**Select three (3) hours from the following:**

HIST 351 Colonial Latin America (I-3a) (W) **3 hours**  
 HIST 375 Ancient Mediterranean World (I-3a) (W) **3 hours**  
 HIST 386 Medieval Europe (I-3a) (W) **3 hours**  
 HIST 471 Classics of Western Thought I (I-3a) (W) **3 hours**  
 HIST 472 Classics of Western Thought II (I-3a) (W) **3 hours**

**TOTAL 31 HOURS**

Students majoring in Spanish who are seeking teaching certification are required to travel abroad for one (1) academic year, to conduct studies at one of the ACA locations (Argentina or Spain). It is highly recommended that students fulfill this requirement during their sophomore year.

**NOTE:** *Native Spanish-speaking students who completed secondary education in a Spanish-speaking country are exempt from this requirement.*

## **ARABIC MINOR\***

As the native language of over 280 million people, one of the six working languages in the United Nations and one of the thirteen critical languages identified by the Department of State, Arabic is a language for which there is a great demand. Not only is this language critical for the U.S. government, it is also critical for the SDA Church. The recently reorganized Greater Middle East Union now reports directly to the General Conference as part of a renewed focus on this region of the world. Therefore, the SDA Church is in need of a group of people who are proficient in this language. The acceptance of the Arabic program and MEU as a member of the ACA Consortium is in keeping with the mission of the SDA World Church. Both were accepted and voted in March 2012 by the ACA Board and the NAD.

The Modern Languages Department at Southern is currently promoting ONLY a full academic year program at MEU as proposed to and accepted by the ACA Board. We would like those students attending this program to earn a minor in Arabic.

### **Required Courses**

ARAB 111 Basic Grammar **3 hours**  
 ARAB 121 Basic Conversation **3 hours**  
 ARAB 131 Basic Writing **3 hours**  
 ARAB 141 Basic Reading **3 hours**

**Select one (1) of the following courses during the second semester at MEU Beirut-Lebanon. These are hybrid courses taught in Arabic and English:**

ARAB 260 Current Events in the Arab World **2 hours**  
 ARAB 270 Arab People and Their Culture **2 hours**  
 ARAB 280 Religion **2 hours\*\***

### **Select six (6) hours at Southern:**

HIST 345 Middle Eastern Politics and History (I-3a) (W) **3 hours**  
 RELT 458 World Religions (W) (R-4) **3 hours**

**TOTAL 20 HOURS**

\*ARAB 110/120/130/140 will be completed at MEU the first semester of the academic year abroad.

*\*\*This course will give an overview of the Bible with special emphasis on the life of Jesus Christ as portrayed through the gospel accounts.*

## FRENCH MINOR

### Required Courses

FREN 207	Intermediate French I (I-3c) <b>3 hours</b>
FREN 208	Intermediate French II (I-3c) <b>3 hours</b>
FREN 244	French Composition and Conversation <b>3 hours</b>
FREN 344	Advanced French Composition and Conversation <b>3 hours</b>
FREN 350	French Linguistics <b>3 hours</b>
FREN 353	Contemporary French Culture and Civilization (SERV-2) <b>3 hours</b>
<b>TOTAL 18 HOURS</b>	

*The beginning language courses, 101-102, are excluded from the minor. Students desiring a language minor must earn 12 credits beyond the intermediate level either at Southern or through ACA .*

## GERMAN MINOR

### Required Courses

GRMN 207, GRMN 208	<b>6 hours</b>
UD GRMN Language Courses	<b>6 hours</b>
Elective GRMN Language Courses	<b>6 hours</b>
<b>TOTAL 18 HOURS</b>	

*The beginning language courses, 101-102, are excluded from the minor. Students desiring a language minor must earn 12 credits beyond the intermediate level either at Southern or through ACA .*

## ITALIAN MINOR

### Required Courses

ITAL 207	Intermediate Italian I (I-3c) <b>3 hours</b>
ITAL 208	Intermediate Italian II (I-3c) <b>3 hours</b>

### At Villa Aurora (Italy):

GEOG 310	Geography of Italy*
ITLN 303	Italian History*
ITLN 313	Advanced Italian Culture*
ITLN 351	Advanced Grammar*
ITLN 361	Advanced Composition*
ITLN 381	Advanced Conversation*

**Note(s):** \*See *Adventist Colleges Abroad Catalog* for course descriptions

**TOTAL 18 HOURS**

*The beginning language courses, 101-102, are excluded from the minor. Students desiring a language minor must earn 12 credits beyond the intermediate level either at Southern or through ACA .*

## **SPANISH MINOR**

### **Required Courses**

SPAN 207	Intermediate Spanish I (I-3c) (SERV-2) <b>3 hours</b>
SPAN 208	Intermediate Spanish II (I-3c) (SERV-2) <b>3 hours</b>
SPAN 243	Composition and Conversation <b>3 hours</b>
SPAN 354	Hispanic Culture and Civilization (SERV-2) <b>3 hours</b>
SPAN 355	Survey of Spanish Literature (S-3a) (W) <b>3 hours</b>
SPAN 356	Survey of Spanish-American Literature (S-3a) (W) <b>3 hours</b>

### **TOTAL 18 HOURS**

*The beginning language courses, 101-102, are excluded from the minor. Students desiring a language minor must earn 12 credits beyond the intermediate level either at Southern or through ACA.*

# School of Music

**Dean:** W. Scott Ball

**Faculty:** Gennevieve Brown-Kibble, Peter J. Cooper, Judith Glass, Laurie Redmer Minner, Ken Parsons, Julie Penner

**Adjunct Faculty:** Eric Anderson, Bob Burks, Linda Chung, Jan Cochrane, Robert Hansel, Nicholas Hartline, Alexander Henderson, Gordon James, Elaine Janzen, Robert Pendergast, Mark Reneau, Ann Rylands, Sherilyn Samaan, Clinton Schmitt, Heather Small, Jenny Wilkes

## **Program Coordinators:**

Music, Scott Ball

Music Education, Laurie Redmer Minner

The faculty of the School of Music believes that music is one of the arts given to humankind by the Creator to be used in the worship of God and to enhance the quality of life. In harmony with this philosophy, course work is offered that meets the needs of the general university student as well as music majors and minors.

Since 1968, the School of Music has been a member of the National Association of Schools of Music. Consequently, all academic programs, policies, and operations of the School of Music meet NASM standards for full accreditation.

The School of Music offers two baccalaureate degrees, the Bachelor of Music degree in music education and the Bachelor of Science degree in music. Both degrees require courses in music theory and history, as well as a high level of achievement in a major performance area. The Bachelor of Music degree emphasizes the skills necessary for teaching music, with special emphasis on the training of teachers for the Seventh-day Adventist school system. The Bachelor of Science degree affords the student the opportunity to choose one of three tracks: (1) General, (2) Music Theory and Literature, (3) Music Performance.

## **Admission Requirements**

Music majors must fulfill all the general admission requirements of the University. Acceptance to the University, however, does not guarantee admission to the School of Music as a music major. The prospective music major is required to take written and aural entrance examinations in music theory and a performance examination in the applied area. To obtain Freshman Standing as a music major, the student must qualify for MUCT 111 Music Theory I and MUPF 189 Concentration. Continuation in the music program is contingent upon satisfactory progress toward a degree measured by regular assessment checkpoints, described in the following pages.

## **General Requirements**

### **Functional Piano**

All music majors must demonstrate functional piano ability by passing the Piano Proficiency Examination (PPE). The PPE is made up of two areas. The Skills area requires students to demonstrate mastery of 5-finger patterns, scales, triads and inversions, arpeggios, and harmonic progressions. The

Applied area requires student to synthesize technical ability and musicianship through accomplished performance of piano repertoire of appropriate level of difficulty, harmonization, hymn playing, prepared accompaniment, and, for music education majors pursuing vocal endorsement, score reading of open choral scores. Students may obtain copies of the Piano Proficiency Examination Information Sheet and Piano Proficiency Examination Content in the School of Music Office.

Students must successfully complete all PPE requirements before the end of their sophomore year. Students will not be allowed to enroll for upper-division concentration or music classes until they have successfully completed all PPE requirements.

### **Private Music Instruction**

Music majors take private lessons in their major performance area for one or two credit hours each semester, depending upon their specific degree track. Specific requirements are listed under MUPF 189 and MUPF 389 course descriptions. (See Music Lesson Fees under Financial Policies section of this *Catalog*.)

### **Concert and Recital Attendance**

Full-time music majors (students taking 12 or more credits) are required to attend, as a non-performer, nine School approved concerts per semester, except for the student teaching semester. Attendance shall include faculty recitals, student junior and senior recitals, and music general recitals. Failure to meet this requirement will nullify music major status.

### **Music Ensemble Participation**

All music majors are required to participate in an appropriate music ensemble every semester in full-time residence (12 or more hours). During the student teaching semester, students are exempted from this requirement. Teacher certification candidates must, however, complete eight hours of appropriate ensembles. Appropriate ensembles are defined as follows: string majors, Symphony Orchestra; wind and percussion majors, Wind Symphony; voice majors, I Cantori; keyboard majors, ensembles chosen in consultation with the School of Music faculty. All ensemble assignments are determined by audition. Music majors and minors may be placed in an ensemble that is not listed above. Students are encouraged to participate in a variety of other ensembles as time permits.

### **Assessment**

The School of Music has an ongoing program of student assessment. This program includes the following:

#### **Performance Evaluations (Concentration)**

Music Performance Concentration (MUPF 189, MUPF 389) grades will be based on the student having met the following criteria:

- Completed at least 12 lessons for the semester. (One-half hour lesson=one semester hour credit; one hour lesson=two semester hours credit.)
- Practiced a minimum of five hours each week for each semester hour of

credit. The student will keep a “Daily Practice Log” for his/her verification of meeting this requirement. (Two semester hours of credit=ten hours of practice per week.)

- Studied, completed, and performed sufficient literature to warrant the credit hours for which the individual is registered. (The number, length, and/or difficulty level of the work(s) studied and of the work(s) prepared for performance are the basis for this criterion. Where appropriate, other factors such as memorization will be considered.)
- Performed on at least one Music General Recital during the semester. Organ students may meet this requirement through a service performance (e.g. convocation, evensong, worship service).
- Completed the end of the semester jury examination and received a performance grade as determined by the Music Faculty (50%) and the Private Lesson Instructor (50%).
- Unsatisfactory performance in any item above will negatively affect the final Performance Concentration grade.

A grade of C- or lower will not count toward the Performance Concentration requirements.

A grade of C or lower for two consecutive semesters may result in the student being dropped as a Music Major. Reinstatement can be achieved only by applying to the Music Faculty and successfully completing an audition for reinstatement in the Performance Concentration area. Audition for reinstatement may be requested only once.

## **Performance Evaluations (Applied Music)**

Applied Music (MUPF 129, MUPF 329) grades will be based on the student having met the following criteria.

- Completed at least 12 lessons for the semester. (One-half hour lesson=one semester hour credit; one hour lesson=two semester hours credit.)
- Practiced a minimum of five hours per week for each semester hour of credit. The student will keep a “Daily Practice Log” for his/her verification of meeting this requirement. (Two semester hours credit=ten hours practice per week.)
- Studied, completed, and performed sufficient literature at the individual student’s level to warrant the credit hours for which the individual is registered.

Unsatisfactory performance in any item above will negatively affect the final Applied Music grade.

## **Application to Music Major Track**

Music majors with Freshman Standing must apply to the Music Faculty for acceptance to a specific track upon completion of the freshman year. The following tracks are available: B.Mus. Music Education; B.S. Music/General; B.S. Theory and Literature; B.S. Performance. The faculty’s decision is based upon the following:

- Satisfactory progress in academic coursework (minimum of 2.5 grade point average in MUCT and MUHL courses).
- Satisfactory progress in performance area (based on jury evaluations).
- Other criteria specific to Music Education and Performance concentrations.

## **Sophomore Evaluation and Junior Standing**

Music majors must apply for junior standing at the end of the sophomore year. These requirements are as follows:

- An overall grade point average of 2.00 for the Bachelor of Science degree and 2.75 for the Bachelor of Music degree.
- A grade point average of 2.75 in all music courses.
- Demonstration of keyboard proficiency through passing the PPE.
- Completion of MUCT 211-MUCT 212, MUCT 221-MUCT 222.
- Completion of at least four hours of MUPF 189: Concentration.

Faculty evaluation of the application for junior standing will result in the student's receiving one of the following classifications: (a) Pass, Bachelor of Music; (b) Pass, Bachelor of Science; (c) Probation; (d) Fail. Junior Standing requirements must be met at least two semesters before graduation.

## **Senior Recital**

All music degree candidates will present a senior recital. The student must be registered for private instruction until the senior recital requirement is satisfied. A faculty audition of the complete program must be scheduled at least three weeks before the recital date. Junior Standing as a music major is prerequisite to scheduling the faculty audition of the senior recital. Unsatisfactory performance at this audition will result in a rescheduling of the recital date.

Following the senior recital, the music faculty will vote either to accept the performance or to require all or portions of the recital to be repeated. The student will not be cleared for graduation until successful completion of the senior recital. Upon music faculty approval, the senior recital requirement may be partially fulfilled through a conducting or chamber music performance.

## **Senior Assessment Examination**

During the senior year each graduating senior will take the nationally standardized Major Field Achievement Test. The results of this examination will be used to help determine the effectiveness of the music program and the competency level of the graduates.

## **Individual and Group Instruction**

Courses MUPF 108, MUPF 129, and MUPF 329 are open to any student of the University as general education and/or elective credit toward all degrees. The music major or minor may not apply these toward his/her applied music concentration. Students desiring to study organ must pass the Functional Piano Examination.

Courses MUPF 189 and MUPF 389 are courses primarily for the music major and minor, but they may be taken by anyone who passes a prerequisite audition. Jury examinations are required with these course numbers.

Students enrolled in individual instruction MUPF 129, MUPF 189, MUPF 329, MUPF 389, and MUPF 489 will be charged \$175 per semester hour (12 half-hour lessons) in addition to tuition (regular or audit rate).



## Choral and Instrumental Ensembles

Choral and instrumental ensembles are open to all University students through audition. Each ensemble offers one hour credit each semester. Regular attendance at performances and rehearsals, including dress rehearsals, is required. Ensembles for which academic credit is granted are organized and sponsored by the members of the music faculty. All may be repeated for credit.

## MUSIC, B.S.

The Bachelor of Science in Music degree indicates the study of music within a liberal arts degree framework. This program is designed to meet the needs of students who wish to major in music, irrespective of specific career aspirations.

### Music Core

#### Required Courses

MUCT 111	Music Theory I	<b>3 hours</b>
MUCT 112	Music Theory II	<b>3 hours</b>
MUCT 121	Aural Theory I	<b>1 hour</b>
MUCT 122	Aural Theory II	<b>1 hour</b>
MUCT 211	Music Theory III	<b>3 hours</b>
MUCT 212	Music Theory IV	<b>3 hours</b>
MUHL 218	Musical Styles and Repertories (S-3b)	<b>3 hours</b>
MUCT 221	Aural Theory III	<b>1 hour</b>
MUCT 222	Aural Theory IV	<b>1 hour</b>
MUHL 320	Music of the Middle Ages and Renaissance (W)	<b>2 hours</b>
MUPF 273	Basic Conducting	<b>1 hour</b>
Appropriate Mus Ensembles (3 hrs must be UD)		<b>8 hours</b>

#### Select two (2) from the following courses:

MUHL 321	Music of the Late Renaissance and Baroque Era (W)	<b>2 hours</b>
MUHL 322	Classic and Romantic Music (W)	<b>2 hours</b>
MUHL 323	Music in the Twentieth Century (W)	<b>2 hours</b>
		<b>34 HOURS</b>

### General Track

#### Required Courses

Music Core		<b>34 hours</b>
MUPF 189	Concentration	<b>1-2 hours</b> (4 hours required)
MUPF 389	Concentration	<b>1-2 hours</b> (3 hours required)
MUPF 489	Senior Recital	<b>2 hours</b>
UD Theory Elective		<b>3 hours</b>
<b>TOTAL 46 HOURS</b>		

### Music Theory and Literature Track

#### Required Courses

Music Core		<b>34 hours</b>
MUPF 189	Concentration	<b>1-2 hours</b> (4 hours required)
MUPF 389	Concentration	<b>1-2 hours</b> (4 hours required)

- MUCT 413 Analysis of Musical Forms **3 hours**
- MUHL 485 Music Seminar **2 hours**

**Select one (1) from the following courses:**

- MUCT 313 Orchestration and Arranging **3 hours**
  - MUCT 314 Counterpoint **3 hours**
  - MUCT 315 Compositional Techniques **3 hours**
- TOTAL 50 HOURS**

**Cognate Requirement**

Foreign Language through the Beginning Level (French or German required) **6 hours**

**Music Performance Track**

*Students are accepted into this track by audition only.*

**Required Courses**

- Music Core **34 hours**
- MUPF 189 Concentration **1-2 hours** (8 hours required)
- MUPF 389 Concentration **1-2 hours** (6 hours required)
- MUPF 489 Senior Recital **2 hours**
- MUCT 413 Analysis of Musical Forms **3 hours**

**Specific area requirements as follows**

For Piano Majors

- MUED 316 Piano Pedagogy **2 hours**
  - MUPF 289 Accompanying **1 hour** (2 credits required)
- TOTAL 4 HOURS**

For Voice Majors

- MUED 317 Voice Pedagogy **2 hours**
  - MUPF 225 Singers Diction I **2 hours**
  - MUPF 226 Singers Diction II **2 hours**
- TOTAL 6 HOURS**

For Organ Majors

- MUED 318 Organ Pedagogy **2 hours**
  - MUPF 279 Service Playing **1 hour** (2 hours required)
- TOTAL 4 HOURS**

For Orchestra/Band Instrument

- MUPF 334 Chamber Music **1 hour** (2 hours required)
  - MUPF 344 Instrumental Literature **2 hours**
- TOTAL 4 HOURS**

**TOTAL 57-59 HOURS**

**Cognate Requirement**

Foreign Language through the Beginning Level (French or German required, except for voice majors who may elect Italian) **6 Hours**  
**46-59 HOURS**

**MUSIC EDUCATION, B.MUS**

The Bachelor of Music degree in music education is specifically designed for students seeking professional licensure. Students who will not seek licensure should enroll in the B.S. in Music/General Track program.

The licensure track meets Tennessee and denominational certification requirements. Students must apply for admission to the Teacher Education Program through the School of Education and Psychology. Each student is responsible to determine the additional courses that may be required for certification in the state of his/her choice. This and all information pertaining to licensure can be obtained at the School of Education and Psychology.

Licensure requirements include minimum 2.75 overall average, 2.75 grade point average in education courses with no grade lower than a C, and 2.75 average in music courses with no grade lower than a C-. In addition, music education licensure candidates must pass the appropriate Praxis II tests.

The following General Education requirements apply only to students pursuing a Bachelor of Music degree:

## Music Core

### Required Courses

MUCT 111	Music Theory I	<b>3 hours</b>
MUCT 112	Music Theory II	<b>3 hours</b>
MUCT 121	Aural Theory I	<b>1 hour</b>
MUCT 122	Aural Theory II	<b>1 hour</b>
MUCT 211	Music Theory III	<b>3 hours</b>
MUCT 212	Music Theory IV	<b>3 hours</b>
MUHL 218	Musical Styles and Repertories (S-3b)	<b>3 hours</b>
MUCT 221	Aural Theory III	<b>1 hour</b>
MUCT 222	Aural Theory IV	<b>1 hour</b>
MUCT 313	Orchestration and Arranging	<b>3 hours</b>
MUHL 320	Music of the Middle Ages and Renaissance (W)	<b>2 hours</b>
MUPF 273	Basic Conducting	<b>1 hour</b>
MUPF 373	Choral Conducting	<b>2 hours</b>
MUPF 374	Instrumental Conducting	<b>2 hours</b>
	Appropriate Ensembles	<b>8 hours</b>

### Select two (2) of the following courses:

MUHL 321	Music of the Late Renaissance and Baroque Era (W)	<b>2 hours</b>
MUHL 322	Classic and Romantic Music (W)	<b>2 hours</b>
MUHL 323	Music in the Twentieth Century (W)	<b>2 hours</b>
<b>TOTAL 41 HOURS</b>		

## Vocal/General Endorsement

### A. VOICE CONCENTRATION

Concentration		<b>12 hours</b>
MUED 317	Voice Pedagogy	<b>2 hours</b>
MUPF 225	Singers Diction I	<b>2 hours</b>
MUPF 489	Senior Recital	<b>2 hours</b>
MU Elective		<b>2 hours</b>
<b>TOTAL 20 HOURS</b>		

### B. KEYBOARD CONCENTRATION

Concentration (Piano or Organ)		<b>12 hours</b>
Applied Music (Voice)		<b>4 hours</b>
(MUPF 129/329)		

- MUED 317 Voice Pedagogy **2 hours**
- MUPF 489 Senior Recital **2 hours**
- MUPF 279 Service Playing **1 hour** (2 credits required)  
or MUPF 289 Accompanying **1 hour** (2 credits required)
- MUED 316 Piano Pedagogy **2 hours**  
or MUED 318 Organ Pedagogy **2 hours**

**TOTAL 24 HOURS**

**TOTAL 20–24 HOURS**

## **Instrumental Endorsement**

Concentration (one instrument: wind, string, or percussion) **12 hours**  
Applied Music (one instrument from family outside of concentration 1,1) **2 hours**  
(MUPF 129/329)

- MUED 236 String Methods and Techniques **2 hours**
- MUED 246 Brass Methods and Techniques **2 hours**
- MUED 256 Woodwind Methods and Techniques **2 hours**
- MUED 266 Percussion Methods and Techniques **2 hours**
- MUPF 489 Senior Recital **2 hours**

**TOTAL 24 HOURS**

## **Vocal/General and Instrumental Endorsement**

An applicant for endorsements in both areas must have completed the following courses:

- MUED 246 Brass Methods and Techniques **2 hours**
- MUED 256 Woodwind Methods and Techniques **2 hours**
- MUED 266 Percussion Methods and Techniques **2 hours**
- MUED 317 Voice Pedagogy **2 hours**
- MUPF 129 Applied Music (S-3c) **1-2 hours** (2 hours required)
- MUPF 225 Singers Diction I **2 hours**

**TOTAL 36 HOURS**

## **Professional Core**

### **MUED Courses**

- MUED 250 Technology in Music Education (I-2c) **2 hours**
- MUED 331 Music in the Elementary School **3 hours**
- MUED 332 Music in the Secondary School **3 hours**
- MUED 439 Pre-Student Teaching Seminar **1 hour**

### **EDUC Courses**

- EDUC 338 Foundations of Inclusive Education (SERV-2) **3 hours**
- EDUC 341 General Methods and Assessment **3 hours**
- EDUC 343 Learning Theories and Classroom Management **3 hours**
- EDUC 419 Philosophy and Leadership in Christian Education (W) (SERV-2) **3 hours**
- EDUC 434 Reading and Writing in the Content Areas **2 hours**
- EDUC 464 Teaching Seminar **2 hours**
- EDUC 473 Enhanced Student Teaching K-12 (SERV-2) **10 hours**
- EDUC 129 Introduction to and Foundations of Elementary Education **3 hours**  
or EDUC 138 Introduction to and Foundations of Secondary Education **3 hours**

**TOTAL 38 HOURS**

**General Education****Area R-1**

RELB 125 Life and Teachings of Jesus (R-1) **3 hours**  
**TOTAL 3 HOURS**

**Area R-2**

RELT 138 Adventist Heritage (R-2) **3 hours**  
 RELT 255 Christian Beliefs (R-2) **3 hours**  
**TOTAL 6 HOURS**

**Area R-4**

UD RELB/RELT course **3 hours**  
**TOTAL 3 HOURS**

**Area I-1a**

ENGL 101 College Composition I (I-1a) **3 hours**  
**TOTAL 3 HOURS**

**Area I-1b**

ENGL 102 College Composition 2 (I-1b) **3 hours**  
**TOTAL 3 HOURS**

**Area I-1c**

COMM 135 Introduction to Public Speaking (I-1c) **3 hours**  
**TOTAL 3 HOURS**

**Area I-2a**

MATH course 3 hours (exempt for ACT Math score 22 or higher)  
**TOTAL 0-3 HOURS**

**Area I-2b**

CPT 100 Computer Concepts (I-2b) **1 hour**  
**TOTAL 1 HOUR**

**Area I-3a**

HIST course **3 hours**  
**TOTAL 3 HOURS**

**Area I-3a, I-3b or Area I-3c**

History, Society and Culture or World Language course **3 hours**  
**TOTAL 3 HOURS**

**Area I-4**

BIOL, CHEM, ERSC or PHYS **6 hours** (Must take at least 3 hours from each of 2 sub-areas or complete a two semester science sequence course)  
**TOTAL 6 HOURS**

**Area S-1**

NOND 101 Southern Connections (S-1) **1 hour**  
**TOTAL 1 HOUR**

**Area S-2**

EDUC 220 Growth Years (S-2) **3 hours**  
**TOTAL 3 HOURS**

**Area S-3**

Literature course **3 hours**  
**TOTAL 3 HOURS**

**Area P-1a**

PEAC 125 Fitness for Collegiate Life (P-1a) **1 hour**  
**TOTAL 1 HOUR**

**Area P-1b**

ADAC, OLAC, PEAC or RECR course **2 hours**  
**TOTAL 2 HOURS**

**Area P-1c**

PEAC 425 Fit for Hire (P-1c) **1 hour**  
**TOTAL 1 HOUR**

**Area P-2**

HLED 173 Health for Life (P-2) **2 hours**  
**TOTAL 2 HOURS**

**TOTAL 47–50 HOURS**  
**TOTAL 149–153 HOURS**

*NOTE(S):*

*The student must apply for Initial Admission to the Teacher Education Program (usually by the end of the sophomore year) after completing all requirements as outlined under ADMISSION PROCEDURES in the School of Education and Psychology section of the Catalog. Initial admission is required before the student can enroll in upper division education courses.*

*The student must also complete an application and all other requirements for Admission to Student Teaching. Prior to student teaching, the student must take and pass the PRAXIS II licensure exam—both the appropriate section of the Principles of Learning and Teaching, and the particular specialty test(s) for the licensure area(s).*

**MUSIC MINOR**

The School of Music offers a minor in music for students who desire to deepen their knowledge and ability in this discipline while majoring in another academic area. It consists of coursework in Music Theory, Music History and Performance studies, as listed below. An audition is required for acceptance into the music minor. At least twenty-five percent of the coursework toward the minor must be taken in residence at Southern Adventist University.

**Required Courses**

MUCT 111 Music Theory I **3 hours**  
MUCT 112 Music Theory II **3 hours**  
MUPF 189 Concentration **1-2 hours** (2 hours required)  
MUHL 218 Musical Styles and Repertories (S-3b) **3 hours**  
MUPF 273 Basic Conducting **1 hour**

MUPF 389 Concentration **1-2 hours** (2 hours required)  
Ensemble (at least two hours must be UD) **4 hours** \*

**Select one (1) of the following courses:**

MUHL 320 Music of the Middle Ages and Renaissance (W) **2 hours**  
MUHL 321 Music of the Late Renaissance and Baroque Era (W) **2 hours**  
MUHL 322 Classic and Romantic Music (W) **2 hours**  
MUHL 323 Music in the Twentieth Century (W) **2 hours**

**TOTAL 20 HOURS**

*\*Each Music minor shall register for credit and maintain membership for at least four semesters in a major music ensemble appropriate to the student's major instrument and ability.*

# School of Nursing

**Dean:** Barbara James

**Faculty:** Kerry Allen, Ronda Christman, Judith Dedeker, Bonnie Freeland, Holly Gadd, Pam Gammenthaler, Jeff Gates, Lorella Howard, Jaclynn Huse, Cynthia Johnson, Frances Johnson, Dana Krause, Michael Liedke, Sylvia Mayer, Callie McArthur, Christine Moniyung, Cindy Rima, Christy Showalter, Elizabeth Snyder, Lilly Tryon, Maria Valenca, Joelle Wolf, Sonia Wrate

**Coordinator of Nursing Admissions and Progression:** Sylvia Mayer

**Program Coordinators:**

Nursing, B.S., Joelle Wolf

Nursing, A.S., Pam Gammenthaler

## Mission Statement

The mission of the School of Nursing (SON) is to provide a Christian learning environment that values academic excellence and fosters personal and professional growth to meet the diverse healthcare needs of individuals, families, and communities.

## Program Outcomes

The graduate will:

1. Provide care for the patient, using the nursing process in collaboration with patient, families and health team members, to diagnose and treat the patient's response to actual or potential stressors.
2. Manage the nursing care of individuals and groups of individuals with actual or potential stressors to system functioning, within a variety of practice settings.
3. Consistently fulfill the role of member of the discipline of nursing as evidenced by lifelong learning, care, integrity, accountability and professional conduct and involvement.

## Accreditation

The programs in nursing are fully accredited by the Accreditation Commission for Education in Nursing (ACEN), 3343 Peachtree Road, NE, Suite 850, Atlanta, GA 30326. They are approved by the Tennessee Board of Nursing (TBN).

## Assessment

The SON has a comprehensive assessment program. AS and BS students are required to complete standardized competency examinations throughout the nursing curriculum. The AS graduate is eligible to take the National Council Licensure Examination (NCLEX-RN). The Tennessee Board of Nursing requires an annual pass rate of 85% or higher on the NCLEX-RN for a school to maintain approval.

## Policies

Students admitted to nursing courses will accept personal responsibility for their learning and professional behavior. Each student contracts to abide by



policies as stated in the SON Student Handbook.

Students will be expected to provide their own transportation for all clinical appointments.

The university assesses lab fees for certain courses across campus. Both AS and BS classes have associated lab fees to help offset expenses which are not covered by regular tuition.

The SON has a zero tolerance policy with respect to illicit drug use. Students will be screened for chemicals during their first nursing course and at any other time for reasonable suspicion or evidence of alcohol or drug use. Violation will result in disciplinary action up to and including dismissal.

All students are required to have a criminal background check. The SON uses Package SC87 with the vendor Certified Background.com. The TBN and other State Boards reserve the right to deny licensure if the applicant has committed a crime other than a minor traffic violation. The SON reserves the right to deny admission to or remove students from the nursing program who have records of misconduct, legal or otherwise, that would jeopardize their professional performance.

The SON reserves the right to revise, add, or withdraw policies and/or courses as necessary to ensure a quality nursing program.

## **Associate and Baccalaureate Programs**

The School of Nursing (SON) program at Southern Adventist University leads to a baccalaureate degree (BS) in nursing with the option to exit at the associate degree (AS) level. Students entering the nursing program (LPN-RN See Associate Degree #7) may declare the AS or AS/BS Nursing Major. However, students are encouraged to declare the BS degree when applying to the University making a double AS Nursing/BS Nursing major. When graduated from AS Nursing, the major will convert to BS Nursing. Registered nurses with an AS degree from a nursing program accredited by the ACEN may apply and be accepted into BS level nursing (campus, off-campus Consortium or online) or accelerated Registered Nurse (RN) to Master of Science (MSN) program. Diploma and AS degree graduates from a non-accredited program will be evaluated on an individual basis.

The nursing curriculum is based on the Neuman Systems Model (NSM) which emphasizes wholistic health. Upon acceptance into the clinical nursing program, the AS degree in nursing may be completed in four semesters, plus a summer nursing practicum. Upon completion of the AS degree requirements, the student is eligible to take NCLEX-RN.

The completion of the the BS Program enhances professional opportunities through study in theoretical and clinical nursing. The program may be completed in two to three semesters following the AS degree depending on completion of general education/cognate requirements.

The accelerated RN to MSN program allows the RN to combine BS and MSN level course work in a condensed program of five to six full-time semesters. Accelerated program emphases include Adult, Family, and Acute Care Nurse Practitioner, and Nurse Educator (see Southern *Graduate Catalog* for complete program information).

A limited number of students are accepted into each program in Fall and Winter semesters of each year.

A well-equipped Learning Resource Center (LRC), clinical skills laboratory, simulation laboratory, and a tutorial program (Assisting Students to Achieve Professionally [ASAP]) are provided to facilitate learning.

## Admission Requirements

The final decisions on acceptance and progression in nursing are made by the SON. Declaration as a nursing major is not the equivalent of acceptance to the SON. Acceptance into the articulated AS/BS Nursing Program is a separate admission. Minimum requirements for admission to clinical nursing courses are listed below:

1. Acceptance to Southern Adventist University.
2. Foreign student transcript evaluation by World Education Services. The cost for this evaluation will be paid by the applicant. The number of credits accepted for transfer to Southern Adventist University may vary from those listed on the evaluation, in accordance with the policies of Southern Adventist University.
3. A diploma from a four-year accredited high school or the equivalent.
4. Evidence of mental and moral fitness. References or information may be required.
5. A score of 80 on the Internet Based Test (IBT) Test of English as a Foreign Language (TOEFL) for students whose native language is not English.
6. In compliance with the Americans with Disabilities Act, students must be, with reasonable accommodation, physically and mentally capable of performing the essential functions of the program. The Core Performance Standards for Admission and Progression developed by the Southern Council on Collegiate Education for Nursing include:
  - Critical thinking ability sufficient for clinical judgment.
  - Interpersonal abilities sufficient to interact with individuals, families, and groups
  - Communication abilities sufficient for interaction with others in verbal and written form.
  - Physical abilities sufficient to move from room to room and maneuver in small spaces.
  - Gross and fine motor abilities sufficient to provide safe and effective nursing care.
  - Auditory abilities sufficient to monitor and assess health needs.
  - Visual abilities sufficient for observation and assessment necessary in nursing care.
  - Tactile ability sufficient for physical assessment.

Upon admission into the nursing program, the following requirements apply:

1. Current American Heart Association Healthcare Provider CPR certification that must be maintained throughout the nursing program.
2. A background check.

3. A urine drug screen.
4. Evidence through a health verification form and all required tests, including immunizations, that student is in good health and free from communicable diseases.

## Associate Degree

Enrollment in the AS Nursing Program is limited, therefore admission is a competitive process. Meeting minimum admission requirements does not guarantee acceptance into clinical nursing courses. The SON faculty consider overall G.P.A., ACT (the SAT is not accepted) scores, university courses completed, adviser recommendation, and length of time at Southern when determining admission into the clinical nursing classes.

Minimum requirements for admission to associate degree nursing courses are as follows:

1. Survey of Chemistry I, Anatomy and Physiology I, and Anatomy and Physiology II with minimum grades of "C".
2. ACT scores with a minimum standard enhanced Math score of 16 (if less than 16, a college math course for credit is required see Area I.2a); 20 in Reading (or Nelson-Denny); and 18 in English (if less than 18, an English class for credit is required see Area I.1b).
3. Students will be asked to take a standardized nursing admission assessment examination. Scores on this examination will be utilized in the selection process for admission to clinical nursing courses.
4. Science credits (Anatomy & Physiology, Chemistry, Microbiology, Nutrition) earned more than five years prior to admission will not be accepted. Applicants may choose to validate knowledge by examination or by repeating the course.
5. A minimum current and cumulative university grade point average of 2.90 on a 4.00 scale with special emphasis on nursing cognates. Cognate courses may be repeated a maximum of one time.
6. Transfer students from another nursing program will be evaluated individually and accepted on a space available basis.
7. Students who have successfully completed a practical nurse program and NRSG 103 Associate Nurse Perspectives, may receive eight (8) credit hours of advanced placement in nursing and will articulate directly into the second semester of the nursing curriculum on a space available basis.
8. Validation will be required. Standardized examinations in Anatomy and Physiology (8 credits) and microbiology (4 credits) will be accepted as an alternative method of college credit for LPNs if these credits are already on the transcript when applying to the nursing program.
9. A personal "admission interview".

The following should be sent by February 1 (Fall or Summer Admission) or September 1 (Winter Admission) to the University Director of Admissions: (1) application to the University (2) application to the SON (3) high school and college transcripts (4) ACT scores. The applicant is responsible to see that all application materials are received by the SON.

Students accepted to clinical nursing are required to send a Nursing Education deposit of \$400 to hold their place in the class.

## Baccalaureate Degree

- RN to BS traditional classroom
- RN to BS online with field experience
- RN to BS consortium off-campus

Students acceptance into the articulated AS-BS Nursing Program transition seamlessly into the senior BS portion of the nursing program. Transfer students who are graduates of ACEN accredited Associate and Diploma Nursing Programs may apply for acceptance into the senior BS nursing courses by sending an application to the SON's Admissions Coordinator. Upon acceptance to the nursing program, courses listed in the current catalog will be required. In order to complete senior BS nursing courses in one year, all non-nursing course requirements must be completed prior to the two semesters of senior BS nursing classes.

Minimum requirements for admission to the baccalaureate nursing program are as follows:

1. Move to Progressions Requirements/Baccalaureate Degree.
2. A minimum grade point average of 2.50 to articulate and progress into senior BS classes or be admitted into the BS Nursing program.
3. Recommendation from nursing faculty in the student's basic nursing program and/or employer.
4. An interview with the BS program coordinator or designee, if requested.
5. Transfer Student Admission: Documentation of clinical experience (satisfactory work performance recommendation), and/or RN Update or additional clinical experience may be required.
6. Nursing Credits: Transfer students who are graduates of ACEN accredited Associate and Diploma Nursing Programs will have 30 credits of associate degree level nursing and eight (8) credits of upper division nursing (NRS 305, NRS 309) placed in escrow upon entrance to the BS program. After successfully completing 10 semester hours of BS nursing courses at Southern, these credits held in escrow will be placed on the transcript as accepted credits toward a BS degree with a major in nursing.

## Associate Degree

Graduates of a state approved associate degree program will be considered to have met General Education requirements for the first two years of the program with the exception of Introduction to Public Speaking, English, Math, Fitness for Collegiate Life, Computer Concepts, and two hours computer skills provided that the GPA is 2.50 or above. If ENGL 101, ENGL 102, COMM 135, CPT 100, Area I-2c, PEAC 125 and math requirements were not included in the associate degree program, they must be taken in fulfillment of the BS degree General Education requirements.

## Diploma Graduate

- Credit is acceptable for courses comparable to those required at Southern if received from an accredited junior or senior college or by examination according to the policy stated in this *Catalog*.

- All general education and cognates for the AS degree level must be completed before graduation.
7. Students in third semester AS degree nursing courses may take: Applied Statistics for Health Professions (NRSG 316), Nursing Assessment (NRSG 328), Nursing Pharmacology (NRSG 389), or Pathophysiology (NRSG 434) if they have taken all general education and cognates for AS and BS nursing and if approved by BS faculty and student adviser.

## Progression Requirements

### Associate Degree

1. A minimum grade of “C+” (2.30) is required in each nursing course for progression with a cumulative GPA of 2.30 in nursing and a 2.50 overall GPA on a 4.00 scale for graduation.
2. A minimum grade of “C” is required in each nursing cognate. Cognate courses are BIOL 101, BIOL 102; NRNT 125; PSYC 128; BIOL 225; CHEM 111.
3. A student may apply to repeat only one failed nursing course (see exception in #5).
4. If a student withdraws from a nursing course that is being repeated, it will be considered course failure.
5. If a student is unable to progress due to a second nursing failure in the third or fourth semester, he/she may reapply one time to restart the program (See readmission requirements). No student who fails the same nursing course twice will be eligible for a program re-start. No courses may be repeated after the student re-starts. Readmission to the nursing program is on a space available basis.
6. A student who withdraws from a nursing course or chooses not to progress to the subsequent course in the next semester that it is offered should notify the Admission and Progressions Coordinator immediately. The process for re-entering the nursing program is outlined under “Readmission Requirements.”
7. Students who do not complete a semester or progress with their class cannot be assured placement in their choice of a subsequent course.
8. Students are required to demonstrate satisfactory performance on standardized tests. If the required performance level is not achieved, remedial work must be completed to progress in the program or be recommended by the SON faculty to take NCLEX-RN.
9. Any cognate course taken off campus during the time the student is enrolled at Southern Adventist University (school year or summer) must be approved by the Dean of the SON.

### Baccalaureate Degree

Minimum requirements for admission to the baccalaureate nursing program are as follows:

1. A minimum grade of “C” (2.00) is required in each nursing and cognate course for progression. Cognate courses are CHEM 112; RELT 373; SOCI 349.

2. A cumulative GPA of 2.50 on a 4.00 scale is required for graduation.
3. One failed nursing course may be repeated.
4. Any cognate course taken off campus during the time the student is enrolled at Southern (academic year or summer) must be approved by the Dean of the SON.
5. Current RN license in any state. Required for completion of BS degree.

## Readmission Requirements

1. Acceptance to Southern Adventist University.
2. Application to the SON.
3. A cumulative grade point average of 2.50 on a 4.00 scale.
4. Completion of specified requirements as set forth by the SON relating to the individual applicant.
5. An interview before a faculty panel.
6. Validation of nursing knowledge and skills through written examination and clinical performance is required for acceptance of prior nursing credits if there has been a time lapse greater than one semester during a student's AS program.
7. Readmission will be on a space available basis.

## NURSING, B.S.

*(Includes 30 hours of AS level courses)*

### Required Courses\*

AS Level Courses **30 hours**

NRS 305	Adult Health III	<b>4 hours</b>
NRS 309	Nursing Seminar	<b>4 hours</b>
NRS 316	Applied Statistics for Health Professions	<b>3 hours</b>
NRS 322	Transitions in Professional Nursing (W)	<b>3 hours</b>
NRS 328	Health Assessment	<b>3 hours</b>
NRS 340	Community Health Nursing (SERV-2)	<b>5 hours</b>
NRS 351	Registered Nurse (RN) Licensure	<b>0 hours</b>
NRS 389	Nursing Pharmacology	<b>3 hours</b>
NRS 434	Pathophysiology	<b>3 hours</b>
NRS 485	Nursing Leadership and Management (I-5)	<b>3 hours</b>
NRS 494	Transcultural Nursing (SERV-2)	<b>3 hours</b>
NRS 497	Research Methods in Nursing (W)	<b>3 hours</b>

Nursing Electives\*\*\* **2 hours**

**TOTAL 69 HOURS**

Contact the School of Nursing for a suggested sequence of courses.

*\*Course requirements vary for students in the consortium and accelerated RN-MSN program (See Southern Graduate Catalog).*

*\*\*Graduates of a state-approved associate degree nursing program will be considered to have met the general education requirements for the first two years of the program, with the exception of Introduction to Public Speaking, English, Fitness for Life, and Computer Competency. If ENGL 101-ENGL 102, COMM 135, PEAC 225, math, or computer competency requirements were not included in the AS program, they must be taken in fulfillment of*

*the BS degree General Education requirements. A maximum of 72 semester hours will be accepted from a college where the highest degree offered is the AS degree.*

*\*\*\*Nursing electives must be at the upper division level.*

### **Required Cognates**

*(includes 18 hours of AS level cognates)*

CHEM 112 Survey of Chemistry II **3 hours**  
 RELT 373 Christian Ethics (R-4) **3 hours**  
 SOCI 349 Aging and Society (S-2) (W) (SERV-2) **3 hours**

### **Required General Education\*\***

#### **Area R-1**

RELB 125 Life and Teachings of Jesus (R-1) **3 hours**  
 or RELT 177 Christian Spirituality (R-1) **3 hours**  
**TOTAL 3 HOURS**

#### **Area R-2**

RELT 138 Adventist Heritage (R-2) **3 hours**  
 or RELT 225 Last-Day Events (R-2) **3 hours**  
 or RELT 255 Christian Beliefs (R-2) **3 hours**  
**TOTAL 3 HOURS**

#### **Area R-3**

RELB course (except RELB 125) **3 hours**  
**TOTAL 3 HOURS**

#### **Area R-4**

RELT 373 Christian Ethics (R-4) **3 hours**  
**TOTAL 3 HOURS**

#### **Area I-1a**

ENGL 101 College Composition I (I-1a) **3 hours**  
**TOTAL 3 HOURS**

#### **Area I-1b**

ENGL 102 College Composition 2 (I-1b) **3 hours**  
**TOTAL 3 HOURS**

#### **Area I-1c**

COMM 135 Introduction to Public Speaking (I-1c) **3 hours**  
**TOTAL 3 HOURS**

#### **Area I-2a**

MATH unless ACT Math score is 22 or SAT score is 520 Select from: MATH 111, MATH 116, MATH 120, or MATH 215.  
**TOTAL 0–3 HOURS**

#### **Area I-2b**

Concepts-based 1 hour  
 CPTE 100 Computer Concepts (I-2b) **1 hour**  
**TOTAL 1 HOUR**

**Area I-2c**

ARTG 115	Introduction to Computer Graphics (I-2c) <b>3 hours</b>
BUAD 217	Business-Computer Concepts and Applications (I-2b, I-2c) <b>3 hours</b>
CPTe 105	Introduction to Word Processing (I-2c) <b>1 hour</b>
CPTe 106	Introduction to Spreadsheets (I-2c) <b>1 hour</b>
CPTe 107	Introduction to Database (I-2c) <b>1 hour</b>
CPTe 109	Presentation Technology (I-2c) <b>1 hour</b>
CPTe 110	Introduction to Web Development (I-2c) <b>1 hour</b>
CPTR 110	Computational Thinking for the Sciences (I-2b, I-2c) <b>3 hours</b>
MUED 250	Technology in Music Education (I-2c) <b>2 hours</b>
<b>Skills-based 2 hours</b>	
NRSg 240	Introduction to Healthcare Informatics (I-2c) <b>1 hour</b>
TECH 248	CADD Mechanical (I-2c) <b>3 hours</b>
<b>TOTAL 2 HOURS</b>	

**Area I-3a**

HIST course **3 hours**  
**TOTAL 3 HOURS**

**Area I-3c, S-3a, S-3b or S-3c**

World Languages, Literature, Music & Art Appreciation or Creative skills **3 hours**  
**TOTAL 3 HOURS**

**Area S-1**

NOND 101 Southern Connections (S-1) **1 hour**  
**TOTAL 1 HOUR**

**Area S-2**

SOCI 349 Aging and Society (S-2) (W) (SERV-2) **3 hours**  
**TOTAL 3 HOURS**

**Area P-1a**

PEAC 125 Fitness for Collegiate Life (P-1a) **1 hour**  
**TOTAL 1 HOUR**

**Area P-1b**

ADAC, PEAC, RECR or OLAC course **1 hour**  
**TOTAL 1 HOUR**

**Area P-1c**

PEAC 425 Fit for Hire (P-1c) **1 hour**  
**TOTAL 1 HOUR**

**Area P-2**

NRNT 125 Nutrition (P-2) **3 hours**  
**TOTAL 3 HOURS**

**NURSING, RN-BS CONSORTIUM**

The Consortium Off-campus BS Completion program provides working/experienced Registered Nurses an opportunity to continue their education by accessing BS Nursing and Southern specific cognate classes close to work



and home in the Chattanooga area. The courses occur in a 2-1/2 year rotation. Nurses seeking their BS degree and/or accepted Accelerated RN to MSN students may access these classes.

### Required Courses

AS Level Courses **30 hours**

NRSRG 305	Adult Health III	<b>4 hours</b>
NRSRG 309	Nursing Seminar	<b>4 hours</b>
NRSRG 316	Applied Statistics for Health Professions	<b>3 hours</b>
NRSRG 322	Transitions in Professional Nursing (W)	<b>3 hours</b>
NRSRG 328	Health Assessment	<b>3 hours</b>
NRSRG 340	Community Health Nursing (SERV-2)	<b>5 hours</b>
NRSRG 351	Registered Nurse (RN) Licensure	<b>0 hours</b>
NRSRG 389	Nursing Pharmacology	<b>3 hours</b>
NRSRG 434	Pathophysiology	<b>3 hours</b>
NRSRG 485	Nursing Leadership and Management (I-5)	<b>3 hours</b>
NRSRG 494	Transcultural Nursing (SERV-2)	<b>3 hours</b>
NRSRG 497	Research Methods in Nursing (W)	<b>3 hours</b>

UD Nursing Electives **2 hours**

**TOTAL 69 HOURS**

Contact the School of Nursing for a suggested sequence of courses. BS Consortium requirements are aligned with the accelerated RN-MSN program as listed below.

*Graduates of a state-approved associate degree nursing program will be considered to have met the general education requirements for the first two years of the program, with the exception of Introduction to Public Speaking, English, Fitness for Life, and Computer Competency. If ENGL 101-ENGL 102, COMM 135, PEAC 225, math, or computer competency requirements were not included in the AS program, they must be taken in fulfillment of the BS degree General Education requirements. A maximum of 72 semester hours will be accepted from a college where the highest degree offered is the AS degree.*

CHEM 111 or equivalent is required.

### Required Cognates

(includes 18 hours of AS level cognates)

RELT 373	Christian Ethics (R-4)	<b>3 hours</b>
SOCI 349	Aging and Society (S-2) (W) (SERV-2)	<b>3 hours</b>

### Required General Education

#### Area R-1

RELB 465	Topics in Biblical Studies	<b>1-3 hours</b> (3 hours required)
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**TOTAL 3 HOURS**

#### Area R-4

RELT 373	Christian Ethics (R-4)	<b>3 hours</b>
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**TOTAL 3 HOURS**

#### Area I-1a

ENGL 101	College Composition I (I-1a)	<b>3 hours</b>
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**TOTAL 3 HOURS**

**Area I-1b**

ENGL 102 College Composition 2 (I-1b) **3 hours**  
**TOTAL 3 HOURS**

**Area I-1c**

COMM 135 Introduction to Public Speaking (I-1c) **3 hours**  
**TOTAL 3 HOURS**

**Area I-2a**

MATH unless ACT Math score is 22 or SAT score is 520 Select from: MATH 111,  
MATH 116, MATH 120, or MATH 215  
**TOTAL 0-3 HOURS**

**Area I-2b**

CPTe 100 Computer Concepts (I-2b) **1 hour**  
**TOTAL 1 HOUR**

**Area I-2c**

CPTe 105 Introduction to Word Processing (I-2c) **1 hour**  
CPTe 106 Introduction to Spreadsheets (I-2c) **1 hour**  
CPTe 107 Introduction to Database (I-2c) **1 hour**  
CPTe 110 Introduction to Web Development (I-2c) **1 hour**  
NRSG 240 Introduction to Healthcare Informatics (I-2c) **1 hour**  
**TOTAL 2 HOURS**

**Area I-3a**

HIST course **3 hours**  
**TOTAL 3 HOURS**

**Area I-3a, I-3b, I-3c, S-3a, S-3b, or S-3c**

History, Government, Economics, World Languages, Literature, Music and Art Appreciation, or Creative Skills **3 hours**  
**TOTAL 3 HOURS**

**Area S-2**

SOCI 349 Aging and Society (S-2) (W) (SERV-2) **3 hours**  
**TOTAL 3 HOURS**

**Area P-1a**

PEAC 125 Fitness for Collegiate Life (P-1a) **1 hour**  
or PEAC 225 Fitness for Life (P-1a) **1 hour**  
**TOTAL 1 HOUR**

**Area P-1b**

ADAC, PEAC, or RECR course **1 hour**  
**TOTAL 1 HOUR**

**NURSING, A.S.**

**Required Courses**

NRSG 110 Fundamentals of Nursing **8 hours**  
NRSG 126 Adult Health I **4 hours**

NRSB 130	Mental Health	<b>4 hours</b>
NRSB 191	Nursing Practicum	<b>1 hour</b>
NRSB 212	Childbearing Family	<b>4 hours</b>
NRSB 226	Adult Health II	<b>4 hours</b>
NRSB 231	Child Health (SERV-2)	<b>4 hours</b>
NRSB 240	Introduction to Healthcare Informatics (I-2c)	<b>1 hour</b>
NRSB 305	Adult Health III	<b>4 hours</b>
NRSB 309	Nursing Seminar	<b>4 hours</b>
<b>TOTAL 38 HOURS</b>		

### Required Cognates

BIOL 101	Anatomy and Physiology (I-4a)	<b>4 hours</b>
BIOL 102	Anatomy and Physiology (I-4a)	<b>4 hours</b>
BIOL 225	Basic Microbiology	<b>4 hours</b>
CHEM 111	Survey of Chemistry I (I-4b)	<b>3 hours</b>
NRNT 125	Nutrition (P-2)	<b>3 hours</b>
PSYC 128	Developmental Psychology (S-2)	<b>3 hours</b>

### Required General Education

#### Area R-1

RELB 125	Life and Teachings of Jesus (R-1)	<b>3 hours</b>
or RELT 177	Christian Spirituality (R-1)	<b>3 hours</b>
<b>TOTAL 3 HOURS</b>		

#### Area R-2 or R-3

RELT 138, RELT 225, RELT 255 or any RELB class except RELB 125	<b>3 hours</b>
<b>TOTAL 3 HOURS</b>	

#### Area I-1a

ENGL 101	College Composition I (I-1a)	<b>3 hours</b>
<b>TOTAL 3 HOURS</b>		

#### Area I-1b

ENGL 102	College Composition 2 (I-1b)	<b>3 hours</b>
<b>TOTAL 3 HOURS</b>		

#### Area I-1c

COMM 135	Introduction to Public Speaking (I-1c)	<b>3 hours</b>
<b>TOTAL 3 HOURS</b>		

#### Area I-2a

MATH	<b>3 hours</b> (Waived if Math ACT is 22)
<b>TOTAL 3 HOURS</b>	

#### Area I-2b

CPT 100	Computer Concepts (I-2b)	<b>1 hour</b> (or waiver)
<b>TOTAL 1 HOUR</b>		

#### Area I-2c

Computer Skills	<b>1 hour</b> (or waiver)
<b>TOTAL 1 HOUR</b>	

**Area S-1**

NOND 101 Southern Connections (S-1) **1 hour**

**TOTAL 1 HOUR**

**Area P-1a**

PEAC 125 Fitness for Collegiate Life (P-1a) **1 hour**

**TOTAL 1 HOUR**

# School of Physical Education, Health, and Wellness

**Dean:** Robert Bengé

**Faculty:** Robert Bengé, Mike Boyd, Rod Bussey, Harold Mayer, Richard Schwarz, Judy Sloan, Doug Tilstra, Troy Walker, Crystal Whitten

**Adjunct Faculty:** Jan Cochrane, Jeff Erhard, Leslie Evenson, Phil Garver, Dwight Magers, Nora McCarthy, Sally Randall, Dorothea Sarli, Brian Wilson

## **Program Coordinators:**

Corporate/Community Wellness Management, Harold Mayer  
Health Science, Rod Bussey  
Health, P.E. and Recreation, Teacher Certification, Judy Sloan  
Outdoor Emergency Services, Doug Tilstra  
Outdoor Leadership, Doug Tilstra  
Sports Studies, Mike Boyd  
Vegetarian Culinary Arts, Crystal Whitten

## **Mission Statement**

The mission of the School of Physical Education, Health and Wellness is to 1) develop effective activity courses and academic degree programs, 2) provide recreation opportunities for the university family, 3) promote wellness through evaluation, education and motivation, and 4) serve the community with opportunities for healthy living.

## **Degrees Offered**

- B.S. Health, Physical Education and Recreation
- B.S. Health Science
- B.S. Corporate/Community Wellness Management
- B.S. Outdoor Emergency Services
- B.S. Outdoor Leadership
- B.S. Sports Studies
- A.S. Vegetarian Culinary Arts
- Certificate Vegetarian Culinary Arts

The courses in Physical Education, Health and Wellness propose to: acquaint students with principles of healthful living, develop physical efficiency, develop life-long fitness and recreational habits, and/or prepare students for careers in physical education, health, wellness management, or related professions.

Health Science is an excellent degree for pre-Medicine, pre-Dental, pre-Physical Therapy, pre-Occupational Therapy, pre-Physician Assistant, and other medical related graduate programs.

No grade lower than a C- will be accepted in cognate courses.

To receive a B.S. degree in Health, Physical Education and Recreation, students must successfully complete ALL Teacher Education requirements including student teaching. All non teacher education track Physical Education students will be directed to a Sports Studies track of their choosing.

## Vegetarian Culinary Arts

Training in vegetarian culinary arts will prepare the student for an exciting career with opportunities for advancement and specialized certificates. Students, along with culinary professionals by your side, will prepare hundreds of recipes while learning kitchen skills, time management skills, budgeting, and menu composition. Students will participate in a variety of professional cooking classes that focus on providing wholesome and health-promoting foods that are vegetarian, vegan, and even raw. Elective training in preparing clean meat is also available. Training is active and involves learning basic knife skills, use of other kitchen tools, equipment, and basic electronics. Students will learn about the various types of food service industries, quantity food purchasing and production, types of food presentation, and marketing.

Characteristics of individuals successful in the culinary field include: creative, energetic, detail oriented, willing to follow instructions, foodies, want to learn healthful food preparation methods, integrity, an appreciation for the SDA health message, and a desire to prepare and share great tasting food that meets a variety of needs.

Graduates of this program may find employment at SDA academic institutions, healthcare facilities/hospitals, extended care facilities and retirement centers, restaurants, spas and resorts, hotels, and other venues. Non-traditional careers could include writing, research and development for a food company, owning your own restaurant or bakery, working as a personal chef, and catering.

## Application Process

Interested candidates must apply and be accepted as a student at Southern Adventist University and in addition you will need to apply for acceptance into the Vegetarian Culinary Arts Program.

## Assessment

To help the graduates in Physical Education, Health, and Wellness evaluate their academic progress and to aid the school in evaluating teaching effectiveness, each senior is required, during their final semester, to take an exit exam. The results of the assessments are used to evaluate the school programs.

## Accreditation

- The Bachelor of Science in Physical Education is NCATE accredited.
- The bachelor degrees in Corporate/Community Wellness Management and Sports Studies, offered in conjunction with the School of Business and Management, are accredited by the International Assembly for Collegiate Business Education.
- The Bachelor of Science in Corporate/Community Wellness Management as an accredited academic program by the National Wellness Institute. All of these graduates are Certified Wellness Practitioners.

## CORPORATE/COMMUNITY WELLNESS MANAGEMENT, B.S.

### Required Courses

BIOL 101      Anatomy and Physiology (I-4a) 4 hours

BIOL 102	Anatomy and Physiology (I-4a) <b>4 hours</b>
CHEM 111	Survey of Chemistry I (I-4b) <b>3 hours</b>
HLED 129	Introduction to Wellness <b>2 hours</b>
HLED 173	Health for Life (P-2) <b>2 hours</b>
HLED 229	Wellness Applications <b>2 hours</b>
HLED 356	Drugs and Society <b>2 hours</b>
HLED 373	Prevention and Care of Athletic Injuries <b>2 hours</b>
HLED 470	Current Issues in Health <b>2 hours</b>
HLED 476	Wellness Methods, Materials, and Management <b>3 hours</b>
HLED 491	Wellness Practicum <b>2 hours</b>
HLNT 135	Nutrition for Life--Enhanced (P-2) <b>3 hours</b>
PEAC 125	Fitness for Collegiate Life (P-1a) <b>1 hour</b>
PETH 314	Biomechanics <b>3 hours</b>
PETH 315	Physiology of Exercise (W) <b>4 hours</b>
PETH 364	Principles and Administration of Physical Education and Recreation (W) <b>3 hours</b>
<b>TOTAL 42 HOURS</b>	

### Required Cognates

*C- is the minimum grade accepted*

BMKT 326	Principles of Marketing <b>3 hours</b>
BUAD 358	Ethical, Social, and Legal Environment of Business (W) <b>3 hours</b>
CPTC 105	Introduction to Word Processing (I-2c) <b>1 hour</b>
ECON 213	Survey of Economics (I-5) <b>3 hours</b>
JOUR 105	Writing for the Media <b>3 hours</b>
MGNT 334	Principles of Management <b>3 hours</b>
PSYC 128	Developmental Psychology (S-2) <b>3 hours</b>
PSYC 377	Fundamentals of Counseling <b>3 hours</b>
ACCT 103	College Accounting (I-5) <b>3 hours</b>
or ACCT 221	Principles of Accounting I (I-5) <b>3 hours</b>

## HEALTH SCIENCE, B.S.

### Required Courses

BIOL 225	Basic Microbiology <b>4 hours</b>
CHEM 151	General Chemistry (I-4b) <b>4 hours</b>
CHEM 152	General Chemistry (I-4b) <b>4 hours</b>
HLED 173	Health for Life (P-2) <b>2 hours</b>
HLED 356	Drugs and Society <b>2 hours</b>
HLED 373	Prevention and Care of Athletic Injuries <b>2 hours</b>
HLED 470	Current Issues in Health <b>2 hours</b>
HLNT 135	Nutrition for Life--Enhanced (P-2) <b>3 hours</b>
MATH 215	Statistics (I-2a) <b>3 hours</b>
PEAC 125	Fitness for Collegiate Life (P-1a) <b>1 hour</b>
PETH 314	Biomechanics <b>3 hours</b>
PETH 315	Physiology of Exercise (W) <b>4 hours</b>
PETH 375	Motor Learning and Development <b>3 hours</b>
PETH/HLED	UD Elective <b>2 hours</b>
BIOL 101	Anatomy and Physiology (I-4a) <b>4 hours</b>
and BIOL 102	Anatomy and Physiology (I-4a) <b>4 hours</b>
or	
BIOL 151	General Biology (I-4a) <b>4 hours</b>

and BIOL 152 General Biology (I-4a) **4 hours**  
**TOTAL 47 HOURS**

## **HEALTH, PHYSICAL EDUCATION AND RECREATION, TEACHER CERTIFICATION, B.S.**

Leading to Licensure K–12

### **Required Courses**

ADAC 200	Gym Climbing (P-1b) <b>1 hour</b>
ADAC 212	Backpacking (P-1b) <b>1 hour</b>
Additional ADAC courses <b>2 hours</b>	
ADTH 350	Adventure Activity Curriculum Applications <b>2 hours</b>
PETH 114	ProAct — Softball <b>1 hour</b>
PETH 116	ProAct — Volleyball <b>1 hour</b>
PETH 117	ProAct — Basketball <b>1 hour</b>
PETH 119	ProAct — Soccer <b>1 hour</b>
PETH 214	ProAct — Tennis <b>1 hour</b>
PETH 216	ProAct — Fitness for Life <b>1 hour</b>
PETH 217	ProAct — Badminton <b>1 hour</b>
PETH 219	ProAct — Gymnastics <b>1 hour</b>
PETH 240	Coaching for Success <b>2 hours</b>
PETH 314	Biomechanics <b>3 hours</b>
PETH 315	Physiology of Exercise (W) <b>4 hours</b>
PETH 363	Tests and Measurements in Health and Physical Education <b>3 hours</b>
PETH 364	Principles and Administration of Physical Education and Recreation (W) <b>3 hours</b>
PETH 375	Motor Learning and Development <b>3 hours</b>
PETH 437	Adaptive Physical Education <b>2 hours</b>
PETH 463	Elementary School Physical Education Methods <b>2 hours</b>
PETH 474	Psychology and Sociology of Sports (W) <b>2 hours</b>
RECR 268	Officiating Sports Analysis <b>2 hours</b>
RECR 269	Officiating Sports Analysis <b>2 hours</b>
<b>TOTAL 42 HOURS</b>	

All non teacher education track Physical Education students will be directed to a Sports Studies track of their choosing.

Competency required in PEAC 143.

Skill deficiencies in each PETH activity unit, PETH 114 through PETH 119 and PETH 214 through PETH 219, will be indicated by grade of C- or less. Deficiencies for these units must be met by taking for no credit the corresponding general education activity course, when available.

Intramural participation is recommended for all majors and minors.

All Pro Act students will be required to dress in t-shirts provided by the school with a portion of the cost charged to the students (approximately \$50—a one-time expense).

Students who desire teacher certification must meet the State of Tennessee certification requirements set forth by the School of Education and Psychology.

The student must apply for Initial Admission to the Teacher Education Program (usually by the end of the sophomore year) after completing all



requirements as outlined under **ADMISSION PROCEDURES** in the School of Education and Psychology section of the *Catalog*. Initial admission is required before the student can enroll in upper division education courses.

The student must also complete an application and all other requirements for Admission to Student Teaching. Prior to the professional semester, the student must take and pass the PRAXIS II licensure exam—both the appropriate section of the Principles of Learning and Teaching, and the particular specialty test(s) for the licensure area(s). Teaching endorsement in Health Education K-12 is available by taking an additional Praxis exam.

Non-academic classes such as Kick, Step, and Hydro Aerobics are offered at nominal fees ranging from \$40–\$75 per semester. These are not for credit.

### Required Cognates

*C- is the minimum grade accepted*

BIOL 101	Anatomy and Physiology (I-4a) <b>4 hours</b>
BIOL 102	Anatomy and Physiology (I-4a) <b>4 hours</b>
HLED 173	Health for Life (P-2) <b>2 hours</b>
HLED 373	Prevention and Care of Athletic Injuries <b>2 hours</b>
HLED 473	Health Education Methods <b>2 hours</b>
HLNT 135	Nutrition for Life--Enhanced (P-2) <b>3 hours</b>

### Professional Core

EDUC 319	Technology in Education (I-2b, I-2c) <b>3 hours</b>
EDUC 343	Learning Theories and Classroom Management <b>3 hours</b>
EDUC 419	Philosophy and Leadership in Christian Education (W) (SERV-2) <b>3 hours</b>
EDUC 434	Reading and Writing in the Content Areas <b>2 hours</b>
EDUC 464	Teaching Seminar <b>2 hours</b>
EDUC 473	Enhanced Student Teaching K-12 (SERV-2) <b>10 hours</b>
HLED 473	Health Education Methods <b>2 hours</b>
PETH 363	Tests and Measurements in Health and Physical Education <b>3 hours</b> (In place of EDUC 331 Educational Theory and Assessment)
PETH 437	Adaptive Physical Education <b>2 hours</b> (In place of EDUC 338 Foundations of Inclusive Education (SERV-2))
PETH 441	Secondary Physical Education Methods <b>2 hours</b> (In place of EDUC 341 General Methods and Assessment)
EDUC 129	Introduction to and Foundations of Elementary Education <b>3 hours</b>
or EDUC 138	Introduction to and Foundations of Secondary Education <b>3 hours</b>
EDUC 220	Growth Years (S-2) <b>3 hours</b>
or PSYC 128	Developmental Psychology (S-2) <b>3 hours</b>
<b>TOTAL 38 HOURS</b>	

## OUTDOOR EMERGENCY SERVICES, B.S.

### Outdoor Leadership Required Courses

EDOE 301	Outdoor Ministries (SERV-2) <b>3 hours</b>
OUTL 136	Survey of Outdoor Adventures <b>3 hours</b>
OUTL 218	Fundamentals of Outdoor Leadership <b>3 hours</b>
OUTL 356	Outdoor Leadership—Field Experience <b>3 hours</b>
OUTL 391	Outdoor Leadership Seminar (W) <b>1 hour</b>
OUTL 430	Adventure Leadership <b>3 hours</b>
Electives from Skills/Certification Courses, (10 hrs must be UD) <b>12 hours</b>	

- OUTL 221 Challenge Course Facilitator **3 hours**  
or PSYC 221 Challenge Course Facilitator **3 hours**
- OUTL 318 Wilderness First Responder **3 hours**  
or OUTL 330 Wilderness Emergency Medical Technician **3 hours**

**A.S. Nursing Required Courses**

- NRSNG 110 Fundamentals of Nursing **8 hours**
- NRSNG 126 Adult Health I **4 hours**
- NRSNG 130 Mental Health **4 hours**
- NRSNG 191 Nursing Practicum **1 hour**
- NRSNG 212 Childbearing Family **4 hours**
- NRSNG 226 Adult Health II **4 hours**
- NRSNG 231 Child Health (SERV-2) **4 hours**
- NRSNG 240 Introduction to Healthcare Informatics (I-2c) **1 hour**
- NRSNG 305 Adult Health III **4 hours**
- NRSNG 309 Nursing Seminar **4 hours**
- TOTAL 72 HOURS**

**Required Cognates**

- BIOL 101 Anatomy and Physiology (I-4a) **4 hours**
- BIOL 102 Anatomy and Physiology (I-4a) **4 hours**
- BIOL 225 Basic Microbiology **4 hours**
- CHEM 111 Survey of Chemistry I (I-4b) **3 hours**
- CHEM 112 Survey of Chemistry II **3 hours**
- NRNT 125 Nutrition (P-2) **3 hours**
- NRSNG 329 Missions and Health (SERV-2) **2 hours**
- PSYC 128 Developmental Psychology (S-2) **3 hours**
- RELT 373 Christian Ethics (R-4) **3 hours**
- SOCI 349 Aging and Society (S-2) (W) (SERV-2) **3 hours**

**Required General Education**

**Area R-1**

- RELB 125 Life and Teachings of Jesus (R-1) **3 hours**  
or RELT 177 Christian Spirituality (R-1) **3 hours**
- TOTAL 3 HOURS**

**Area R-2**

- RELT 138 Adventist Heritage (R-2) **3 hours**  
or RELT 225 Last-Day Events (R-2) **3 hours**  
or RELT 255 Christian Beliefs (R-2) **3 hours**
- TOTAL 3 HOURS**

**Area R-3**

- RELB course (except RELB 125) **3 hours**
- TOTAL 3 HOURS**

**Area I-1a**

- ENGL 101 College Composition I (I-1a) **3 hours**
- TOTAL 3 HOURS**

**Area I-1b**

- ENGL 102 College Composition 2 (I-1b) **3 hours**
- TOTAL 3 HOURS**

**Area I-1c**

COMM 135 Introduction to Public Speaking (I-1c) **3 hours**

**TOTAL 3 HOURS**

**Area I-2a**

MATH course (if needed) **3 hours**

**TOTAL 0–3 HOURS**

**Area I-2b**

CPTe 100 Computer Concepts (I-2b) **1 hour**

**TOTAL 1 HOUR**

**Area I-2c**

Computer Skills **1 hour** (or waiver)

**TOTAL 1 HOUR**

**Area I-3a**

HIST course **3 hours**

**TOTAL 3 HOURS**

**Area I-3a, I-3c, I-5, S-3a or S-3b**

HIST, World Languages, ECON, Literature, or Music and Art Appreciation course **3 hours**

**TOTAL 3 HOURS**

**Area S-1**

NOND 101 Southern Connections (S-1) **1 hour**

**TOTAL 1 HOUR**

**Area P-1a**

PEAC 125 Fitness for Collegiate Life (P-1a) **1 hour**

**TOTAL 1 HOUR**

**Area P-1b**

ADAC, PEAC or RECR course **1 hour**

**TOTAL 1 HOUR**

**Area P-1c**

PEAC 425 Fit for Hire (P-1c) **1 hour**

**TOTAL 1 HOUR**

**OUTDOOR LEADERSHIP, B.S.****Required Core Courses**

EDOE 301 Outdoor Ministries (SERV-2) **3 hours**

EDOE 348 Environmental Education (SERV-2) **3 hours**

OUTL 136 Survey of Outdoor Adventures **3 hours**

OUTL 218 Fundamentals of Outdoor Leadership **3 hours**

OUTL 391 Outdoor Leadership Seminar (W) **1 hour**

OUTL 425 Wilderness Interpretation (W) **3 hours**

OUTL 430 Adventure Leadership **3 hours**

OUTL 492 Outdoor Leadership Internship **10 hours**

ADAC/OUTL Electives **10 hours**

OUTL 221 Challenge Course Facilitator **3 hours**  
or PSYC 221 Challenge Course Facilitator **3 hours**

**Select three (3) hours from the following:**

OUTL 318 Wilderness First Responder **3 hours**  
OUTL 330 Wilderness Emergency Medical Technician **3 hours**

**TOTAL 45 HOURS**

**Required Cognates**

PSYC 122 General Psychology (S-2) **3 hours** \*  
or PSYC 128 Developmental Psychology (S-2) **3 hours** \*  
Area I-4 Elective (ERSC 105 recommended) **3 hours**

*\*Both classes required for Adventure Therapy Concentration*

**Three (3) hours from**

PHYS 317 Issues in Physical Science and Religion (I-4d) **3 hours**  
RELT 317 Issues in Physical Science and Religion (R-4) **3 hours**  
BIOL 421 Issues in Science and Society (I-4a) (W) **3 hours**  
RELT 421 Issues in Science and Society (W) (R-4) **3 hours**

**This degree may be customized by selecting one of the following concentrations in lieu of 17–24 hours of general electives.**

**ADVENTURE THERAPY CONCENTRATION**

PSYC 122 General Psychology (S-2) **3 hours**  
PSYC 128 Developmental Psychology (S-2) **3 hours**  
PSYC 377 Fundamentals of Counseling **3 hours**  
PSYC 422 Issues in Adolescence **3 hours**  
PSYC 460 Group Processes **3 hours**  
PSYC 479 Family Counseling **3 hours**

**TOTAL 18 HOURS**

**BUSINESS CONCENTRATION**

Select any School of Business and Management minor

**TOTAL 18–24 HOURS**

**CULTURAL INTERPRETER CONCENTRATION**

Any HIST or GEOG courses **9 hours**

UD HIST courses **9 hours**

**TOTAL 18 HOURS**

**NATURALIST CONCENTRATION**

BIOL 151 General Biology (I-4a) **4 hours**

BIOL 152 General Biology (I-4a) **4 hours**

**Select three (3) hours from:**

Any Ecology Course **3 hours**

**Select six (6) hours from:**

Any Botany, Ecology, or Zoology Field Courses **6 hours**

**TOTAL 17 HOURS**

**OUTDOOR MINISTRY CONCENTRATION**REL P 251 Introduction to Youth Ministry (R-4) **3 hours**REL P 264 Christian Witnessing (R-4) **3 hours**Any RELB, RELP or RELT **9 hours**UD RELB, RELP or RELT **3 hours****TOTAL 18 HOURS****PUBLIC RELATIONS/ADVERTISING CONCENTRATION**COMM 103 Introduction to Mass Communication **3 hours**JOUR 105 Writing for the Media **3 hours**JOUR 205 News Reporting **3 hours**JOUR 208 Publication Tools and Techniques **3 hours**PREL 235 Public Relations Principles and Theory **3 hours**PREL 344 Fundamentals of Advertising **3 hours****Select six (6) hours from the following:**JOUR 427 Mass Media Law and Ethics **3 hours**JOUR 488 Mass Communication and Society (W) **3 hours**PHOTO 125 Introduction to Photography (S-3c) **3 hours**PREL 355 Advertising Copywriting **3 hours**COMM 406 Persuasion and Propaganda (W) **3 hours**PREL 485 Public Relations Techniques **3 hours****TOTAL 24 HOURS****RECREATION CONCENTRATION**ACCT 103 College Accounting (I-5) **3 hours**HLNT 135 Nutrition for Life--Enhanced (P-2) **3 hours**RECR 210 Group Fitness Instructor **2 hours**RECR 254 Lifeguarding (P-1b) **1 hour**RECR 268 Officiating Sports Analysis **2 hours**RECR 269 Officiating Sports Analysis **2 hours**RECR 325 Personal Trainer **2 hours**RECR 491 Recreation Practicum **1-3 hours** (2 hours required)**Select six (6) hours from the following:**ADAC 141 Fly-Fishing (P-1b) **1 hour**ADAC 151 Scuba Diving (P-1b) **1 hour**ADAC 155 Basic Kayaking (P-1b) **1 hour**ADAC 212 Backpacking (P-1b) **1 hour**ADAC 214 Mountain Biking (P-1b) **1 hour**ADAC 142 Canoeing (P-1b) **1 hour**ADAC 146 Whitewater Rafting Guide (P-1b) **1 hour**ADAC 148 Horsemanship (P-1b) **1 hour**ADAC 156 Land Navigation (P-1) **1 hour****TOTAL 23 HOURS**

### **TECHNOLOGY CONCENTRATION**

Select twelve (12) hours lower division Technology classes **12 hours**

Select six (6) hours upper division Technology classes **6 hours**

**TOTAL 18 HOURS**

**TOTAL 62–69 HOURS**

### **SPORTS STUDIES, B.S.**

#### **Required Core Courses**

BIOL 101	Anatomy and Physiology (I-4a)	<b>4 hours</b>
BIOL 102	Anatomy and Physiology (I-4a)	<b>4 hours</b>
MATH 215	Statistics (I-2a)	<b>3 hours</b>
HLED 173	Health for Life (P-2)	<b>2 hours</b>
HLED 373	Prevention and Care of Athletic Injuries	<b>2 hours</b>
PETH 240	Coaching for Success	<b>2 hours</b>
PETH 314	Biomechanics	<b>3 hours</b>
PETH 315	Physiology of Exercise (W)	<b>4 hours</b>
PETH 364	Principles and Administration of Physical Education and Recreation (W)	<b>3 hours</b>
PETH 375	Motor Learning and Development	<b>3 hours</b>
PETH 474	Psychology and Sociology of Sports (W)	<b>2 hours</b>
<b>TOTAL 32 HOURS</b>		

#### **Professional Activities**

PETH 114	ProAct — Softball	<b>1 hour</b>
PETH 116	ProAct — Volleyball	<b>1 hour</b>
PETH 117	ProAct — Basketball	<b>1 hour</b>
PETH 119	ProAct — Soccer	<b>1 hour</b>
PETH 214	ProAct — Tennis	<b>1 hour</b>
PETH 216	ProAct — Fitness for Life	<b>1 hour</b>
PETH 217	ProAct — Badminton	<b>1 hour</b>
PETH 219	ProAct — Gymnastics	<b>1 hour</b>
<b>TOTAL 8 HOURS</b>		

**TOTAL 40 HOURS**

### **HUMAN PERFORMANCE CONCENTRATION**

Sports Studies Core **40 hours**

CHEM 111	Survey of Chemistry I (I-4b)	<b>3 hours</b>
CHEM 113	Survey of Chemistry Laboratory I	<b>1 hour</b>
HLNT 135	Nutrition for Life--Enhanced (P-2)	<b>3 hours</b>
PETH 325	Personal Trainer	<b>2 hours</b>
PETH 363	Tests and Measurements in Health and Physical Education	<b>3 hours</b>
PETH 437	Adaptive Physical Education	<b>2 hours</b>
PHYS 127	Exploring Physics I (I-4d)	<b>3 hours</b>
PSYC 122	General Psychology (S-2)	<b>3 hours</b>
<b>TOTAL 60 HOURS</b>		

### **JOURNALISM CONCENTRATION**

Sports Studies Core **40 hours**

COMM 103	Introduction to Mass Communication	<b>3 hours</b>
JOUR 105	Writing for the Media	<b>3 hours</b>

JOUR 205	News Reporting <b>3 hours</b>
JOUR 316	Magazine and Feature Article Writing (W) <b>3 hours</b>
JOUR 427	Mass Media Law and Ethics <b>3 hours</b>
JOUR 488	Mass Communication and Society (W) <b>3 hours</b>

**Select six (6) hours from the following:**

BRDC 314	Broadcast News Writing (W) <b>3 hours</b>
JOUR 208	Publication Tools and Techniques <b>3 hours</b>
JOUR 313	Publication Editing <b>3 hours</b>
JOUR 356	Investigative Reporting (W) <b>3 hours</b>

**TOTAL 64 HOURS**

**MANAGEMENT CONCENTRATION**

Sports Studies Core **40 hours**

ACCT 221	Principles of Accounting I (1-5) <b>3 hours</b>
ACCT 321	Managerial Accounting <b>3 hours</b>
BMKT 326	Principles of Marketing <b>3 hours</b>
MGNT 334	Principles of Management <b>3 hours</b>
MGNT 344	Human Resource Management <b>3 hours</b>
MGNT 368	Multicultural Management <b>3 hours</b>
MGNT 372	Small Business Management <b>3 hours</b>
MGNT 420	Organizational Behavior <b>3 hours</b>

**TOTAL 64 HOURS**

**MARKETING CONCENTRATION**

Sports Studies Core **40 hours**

ACCT 221	Principles of Accounting I (1-5) <b>3 hours</b>
BMKT 326	Principles of Marketing <b>3 hours</b>
BMKT 328	Sales Management <b>3 hours</b>
BMKT 375	International Marketing <b>3 hours</b>
MGNT 334	Principles of Management <b>3 hours</b>
MGNT 344	Human Resource Management <b>3 hours</b>
MGNT 368	Multicultural Management <b>3 hours</b>
MGNT 372	Small Business Management <b>3 hours</b>

**TOTAL 64 HOURS**

**PSYCHOLOGY CONCENTRATION**

Sports Studies Core **40 hours**

EDUC 343	Learning Theories and Classroom Management <b>3 hours</b>
PSYC 122	General Psychology (S-2) <b>3 hours</b>
PSYC 297	Research Design and Statistics I <b>3 hours</b>
PSYC 315	Abnormal Psychology <b>3 hours</b>
PSYC 326	Physiological Psychology <b>3 hours</b>
PSYC 346	Introduction to Personality Theories <b>3 hours</b>
PSYC 377	Fundamentals of Counseling <b>3 hours</b>
PSYC 384	Experimental Psychology <b>3 hours</b>
PSYC 498	Research Design and Statistics II (W) <b>4 hours</b>

**TOTAL 68 HOURS**

**PUBLIC RELATIONS/ADVERTISING CONCENTRATION**

Sports Studies Core **40 hours**

COMM 103	Introduction to Mass Communication <b>3 hours</b>
COMM 406	Persuasion and Propaganda (W) <b>3 hours</b>

JOUR 105	Writing for the Media <b>3 hours</b>
JOUR 205	News Reporting <b>3 hours</b>
JOUR 427	Mass Media Law and Ethics <b>3 hours</b>
JOUR 488	Mass Communication and Society (W) <b>3 hours</b>
PREL 235	Public Relations Principles and Theory <b>3 hours</b>
PREL 344	Fundamentals of Advertising <b>3 hours</b>
PREL 355	Advertising Copywriting <b>3 hours</b>
<b>TOTAL 67 HOURS</b>	

## RECREATION CONCENTRATION

Sports Studies Core <b>40 hours</b>	
ACCT 103	College Accounting (I-5) <b>3 hours</b>
HLNT 135	Nutrition for Life--Enhanced (P-2) <b>3 hours</b>
OUTL 221	Challenge Course Facilitator <b>3 hours</b>
PETH 255	Water Safety Instructor <b>1 hour</b>
RECR 210	Group Fitness Instructor <b>2 hours</b>
RECR 254	Lifeguarding (P-1b) <b>1 hour</b>
RECR 268	Officiating Sports Analysis <b>2 hours</b>
RECR 269	Officiating Sports Analysis <b>2 hours</b>
RECR 325	Personal Trainer <b>2 hours</b>
RECR 491	Recreation Practicum <b>1–3 hours</b> (2 hours required)

### Select six (6) hours from the following:

ADAC 141	Fly-Fishing (P-1b) <b>1 hour</b>
ADAC 151	Scuba Diving (P-1b) <b>1 hour</b>
ADAC 155	Basic Kayaking (P-1b) <b>1 hour</b>
ADAC 200	Gym Climbing (P-1b) <b>1 hour</b>
ADAC 212	Backpacking (P-1b) <b>1 hour</b>
ADAC 214	Mountain Biking (P-1b) <b>1 hour</b>
ADAC 148	Horsemanship (P-1b) <b>1 hour</b>
ADAC 156	Land Navigation (P-1) <b>1 hour</b>

**TOTAL 67 HOURS**

**TOTAL 60–68 HOURS**

*NOTE: In the Concentration that does not have a “W” course, students must take two “W” courses outside the major for graduation.*

## VEGETARIAN CULINARY ARTS, A.S.

### Required Courses

VGCA 101	Professional Cooking: Vegetarian Main Dishes and Entrees I <b>1 hour</b>
VGCA 102	Professional Cooking: Main Dishes and Entrees II <b>1 hour</b>
VGCA 105	Professional Cooking: Baking and Pastry I <b>1 hour</b>
VGCA 106	Professional Cooking: Baking and Pastry II <b>1 hour</b>
VGCA 109	Professional Cooking: Soups, Sandwiches and Salads I <b>1 hour</b>
VGCA 110	Professional Cooking: Soups, Sandwiches and Salads II <b>1 hour</b>
VGCA 113	Professional Cooking: Desserts I <b>1 hour</b>
VGCA 114	Professional Cooking: Desserts II <b>1 hour</b>
VGCA 117	Professional Cooking: Vegetables, Grains and Side Dishes I <b>1 hour</b>
VGCA 118	Professional Cooking: Vegetables, Grains and Side Dishes II <b>1 hour</b>
VGCA 121	Professional Cooking: Fresh and Raw I <b>1 hour</b>
VGCA 125	International Ethnic Cuisines: The Americas I <b>1 hour</b>
VGCA 126	International and Ethnic Cuisines: Europe and Asia I <b>1 hour</b>



VGCA 130	Nutritional Cooking I	<b>1 hour</b>
VGCA 151	Food Safety and Sanitation	<b>2 hours</b>
VGCA 161	Introduction to Culinary Arts and Skills	<b>2 hours</b>
VGCA 171	Introduction to Food Purchasing, Preparation and Presentation	<b>3 hours</b>
VGCA 175	Introduction to Culinary Supervision and Management	<b>2 hours</b>
VGCA 181	Introduction to Marketing for Culinary Professionals	<b>1 hour</b>
VGCA 191	Health Benefits of Vegetarian Diets	<b>2 hours</b>
VGCA 192	Vegetarian Culinary Arts Internship	<b>4 hours</b>
VGCA 140	Professional Cooking: Beverages I (Elective)	<b>1 hour</b>
or VGCA 142	Professional Cooking: Fish and Poultry (Elective)	<b>1 hour</b>
VGCA 144	Professional Cooking: Beef (Elective)	<b>1 hour</b>
or VGCA 146	Professional Cooking: Appetizers I (Elective)	<b>1 hour</b>
<b>TOTAL 32 HOURS</b>		

### **Required General Education**

#### **Area R-1**

RELB 125	Life and Teachings of Jesus (R-1)	<b>3 hours</b>
or RELT 177	Christian Spirituality (R-1)	<b>3 hours</b>

**TOTAL 3 HOURS**

#### **Area R-2**

RELT 138	Adventist Heritage (R-2)	<b>3 hours</b>
or RELT 225	Last-Day Events (R-2)	<b>3 hours</b>
or RELT 255	Christian Beliefs (R-2)	<b>3 hours</b>

**TOTAL 3 HOURS**

#### **Area I-1a**

ENGL 101	College Composition I (I-1a)	<b>3 hours</b>
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**TOTAL 3 HOURS**

#### **Area I-1b**

ENGL 102	College Composition 2 (I-1b)	<b>3 hours</b>
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**TOTAL 3 HOURS**

#### **Area I-1c**

COMM 135	Introduction to Public Speaking (I-1c)	<b>3 hours</b>
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**TOTAL 3 HOURS**

#### **Area I-2a**

MATH unless ACT Math score is 22 or SAT score is 520 Select from: MATH 111, MATH 116, or MATH 120

**TOTAL 0–3 HOURS**

#### **Area I-2b**

BUAD 217	Business-Computer Concepts and Applications (I-2b, I-2c)	<b>3 hours</b>
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**TOTAL 3 HOURS**

**Area I-3a**

- HIST 154 American History and Institutions I (I-3a) **3 hours**
- or HIST 155 American History and Institutions II (I-3a) **3 hours**
- or HIST 174 World Civilizations I (I-3a) **3 hours**
- or HIST 175 World Civilizations II (I-3a) **3 hours**

**TOTAL 3 HOURS**

**Area I-4**

- BIOL 101 Anatomy and Physiology (I-4a) **4 hours**
- or BIOL 103 Principles of Biology (I-4a) **3 hours**
- or BIOL 151 General Biology (I-4a) **4 hours**
- or CHEM 107 Chemistry of Everyday Life (I-4b) **3 hours**
- or CHEM 111 Survey of Chemistry I (I-4b) **3 hours**
- or CHEM 151 General Chemistry (I-4b) **4 hours**
- or ERSC 105 Earth Science (I-4c) **3 hours**
- or PHYS 127 Exploring Physics I (I-4d) **3 hours**
- or PHYS 128 Exploring Physics II (I-4d) **3 hours**
- or PHYS 155 Descriptive Astronomy: Creation and Cosmology (I-4d) **3 hours**
- or PHYS 211 General Physics I (I-4d) **3 hours**

**TOTAL 3-4 HOURS**

**Area S-1**

- NOND 101 Southern Connections (S-1) **1 hour**

**TOTAL 1 HOUR**

**Area S-2, S-3a, S-3b, S-3c, or S-3d**

- Personal and/or Social Adjustment or Aesthetic and Skills Development **3 hours**

**TOTAL 3 HOURS**

**Area P-1a**

- PEAC 125 Fitness for Collegiate Life (P-1a) **1 hour**

**TOTAL 1 HOUR**

**Area P-1b**

- Physical Activity **1 hour**

**TOTAL 1 HOUR**

**Area P-2**

- HLNT 130 Nutrition for Life (P-2) **2 hours**

**TOTAL 2 HOURS**

**VEGETARIAN CULINARY ARTS CERTIFICATE**

**Required Courses**

- HLNT 130 Nutrition for Life (P-2) **2 hours**
- NOND 101 Southern Connections (S-1) **1 hour**
- PEAC 125 Fitness for Collegiate Life (P-1a) **1 hour**
- RELB/RELT Religion Course **3 hours**
- VGCA 101 Professional Cooking: Vegetarian Main Dishes and Entrees I **1 hour**
- VGCA 102 Professional Cooking: Main Dishes and Entrees II **1 hour**
- VGCA 105 Professional Cooking: Baking and Pastry I **1 hour**
- VGCA 106 Professional Cooking: Baking and Pastry II **1 hour**

VGCA 109	Professional Cooking: Soups, Sandwiches and Salads I	<b>1 hour</b>
VGCA 110	Professional Cooking: Soups, Sandwiches and Salads II	<b>1 hour</b>
VGCA 113	Professional Cooking: Desserts I	<b>1 hour</b>
VGCA 114	Professional Cooking: Desserts II	<b>1 hour</b>
VGCA 117	Professional Cooking: Vegetables, Grains and Side Dishes I	<b>1 hour</b>
VGCA 118	Professional Cooking: Vegetables, Grains and Side Dishes II	<b>1 hour</b>
VGCA 121	Professional Cooking: Fresh and Raw I	<b>1 hour</b>
VGCA 125	International Ethnic Cuisines: The Americas I	<b>1 hour</b>
VGCA 126	International and Ethnic Cuisines: Europe and Asia I	<b>1 hour</b>
VGCA 130	Nutritional Cooking I	<b>1 hour</b>
VGCA 151	Food Safety and Sanitation	<b>2 hours</b>
VGCA 161	Introduction to Culinary Arts and Skills	<b>2 hours</b>
VGCA 171	Introduction to Food Purchasing, Preparation and Presentation	<b>3 hours</b>
VGCA 175	Introduction to Culinary Supervision and Management	<b>2 hours</b>
VGCA 181	Introduction to Marketing for Culinary Professionals	<b>1 hour</b>
VGCA 191	Health Benefits of Vegetarian Diets I	<b>2 hours</b>
VGCA 192	Vegetarian Culinary Arts Internship	<b>4 hours</b>
VGCA 140	Professional Cooking: Beverages I (Elective)	<b>1 hour</b>
or VGCA 142	Professional Cooking: Fish and Poultry (Elective)	<b>1 hour</b>
VGCA 144	Professional Cooking: Beef (Elective)	<b>1 hour</b>
or VGCA 146	Professional Cooking: Appetizers I (Elective)	<b>1 hour</b>
<b>TOTAL 39 HOURS</b>		

## HEALTH & WELLNESS MINOR

### Required Courses

HLED 173	Health for Life (P-2)	<b>2 hours</b>
HLED 229	Wellness Applications	<b>2 hours</b>
HLED 356	Drugs and Society	<b>2 hours</b>
HLED 470	Current Issues in Health	<b>2 hours</b>
HLED 473	Health Education Methods	<b>2 hours</b>
HLNT 135	Nutrition for Life--Enhanced (P-2)	<b>3 hours</b>

### Select five (5) hours from the following:

HLED 129	Introduction to Wellness	<b>2 hours</b>
HLED 373	Prevention and Care of Athletic Injuries	<b>2 hours</b>
HLED 476	Wellness Methods, Materials, and Management	<b>3 hours</b>
PETH 325	Personal Trainer	<b>2 hours</b>
PETH 495	Directed Study (W)	<b>1-3 hours</b>
RELP 467	Health Evangelism (R-4) (SERV-2)	<b>2-3 hours</b>

**TOTAL 18 HOURS**

## OUTDOOR LEADERSHIP MINOR

### Required Courses

EDOE 301	Outdoor Ministries (SERV-2)	<b>3 hours</b>
EDOE 348	Environmental Education (SERV-2)	<b>3 hours</b>
OUTL 136	Survey of Outdoor Adventures	<b>3 hours</b>
OUTL 356	Outdoor Leadership—Field Experience	<b>3 hours</b>
Outdoor Leadership Electives		<b>8 hours</b>

**TOTAL 20 HOURS**

## PHYSICAL EDUCATION AS A MINOR, TEACHING ENDORSEMENT

### Required Courses

HLED 373	Prevention and Care of Athletic Injuries	<b>2 hours</b>
PETH 114	ProAct — Softball	<b>1 hour</b>
PETH 116	ProAct — Volleyball	<b>1 hour</b>
PETH 117	ProAct — Basketball	<b>1 hour</b>
PETH 119	ProAct — Soccer	<b>1 hour</b>
PETH 214	ProAct — Tennis	<b>1 hour</b>
PETH 216	ProAct — Fitness for Life	<b>1 hour</b>
PETH 217	ProAct — Badminton	<b>1 hour</b>
PETH 219	ProAct — Gymnastics	<b>1 hour</b>
PETH 364	Principles and Administration of Physical Education and Recreation (W)	<b>3 hours</b>
PETH 441	Secondary Physical Education Methods	<b>2 hours</b>
RECR 268	Officiating Sports Analysis	<b>2 hours</b>
RECR 269	Officiating Sports Analysis	<b>2 hours</b>

**TOTAL 19 HOURS**

*For those getting teacher certification in another area, these courses will be required for an additional endorsement in Physical Education rather than just minor.*

## PHYSICAL EDUCATION MINOR

### Required Courses

PETH 114	ProAct — Softball	<b>1 hour</b>
PETH 116	ProAct — Volleyball	<b>1 hour</b>
PETH 117	ProAct — Basketball	<b>1 hour</b>
PETH 119	ProAct — Soccer	<b>1 hour</b>
PETH 214	ProAct — Tennis	<b>1 hour</b>
PETH 216	ProAct — Fitness for Life	<b>1 hour</b>
PETH 217	ProAct — Badminton	<b>1 hour</b>
PETH 219	ProAct — Gymnastics	<b>1 hour</b>
PETH 364	Principles and Administration of Physical Education and Recreation (W)	<b>3 hours</b>
RECR 268	Officiating Sports Analysis	<b>2 hours</b>
RECR 269	Officiating Sports Analysis	<b>2 hours</b>

Electives (3 must be UD) **6 hours**

**TOTAL 21 HOURS**

## RELIEF MEDIC MINOR

### Required Courses

EDOE 301	Outdoor Ministries (SERV-2)	<b>3 hours</b>
OUTL 136	Survey of Outdoor Adventures	<b>3 hours</b>
OUTL 218	Fundamentals of Outdoor Leadership	<b>3 hours</b>
OUTL 221	Challenge Course Facilitator	<b>3 hours</b>
or PSYC 221	Challenge Course Facilitator	<b>3 hours</b>
OUTL 318	Wilderness First Responder	<b>3 hours</b>
or OUTL 330	Wilderness Emergency Medical Technician	<b>3 hours</b>

**Select nine (9) hours from the following:**

- ADAC 142 Canoeing (P-1b) **1 hour**
- ADAC 145 Basic Rock Climbing (P-1b) **1 hour**
- ADAC 146 Whitewater Rafting Guide (P-1b) **1 hour**
- ADAC 148 Horsemanship (P-1b) **1 hour**
- ADAC 152 Caving (P-1b) **1 hour**
- OUTL 320 Advanced Rock Climbing **2 hours**
- OUTL 346 Swift Water/Advanced Swift Water Rescue **2 hours**
- OUTL 353 Vertical Caving **2 hours**
- OUTL 354 Rope Technician I **2 hours**

**TOTAL 24 HOURS**

# Physics and Engineering

**Chair:** Chris Hansen

**Faculty:** Ken Caviness, Blake Laing

**Professor of International Research in Physics:** Ray Hefferlin

**Adjunct Faculty:** Stan Beasley, Henry Kuhlman, Steven Kuhlman

## **Program Coordinators:**

Biophysics, Physics, and Physics w/Teacher Certification, Chris Hansen  
Engineering Studies, Ken Caviness

**Engineering Studies Committee:** Ken Caviness (Chair), Ray Carson, Tyson Hall, Chris Hansen

## **Mission Statement**

The mission of the Physics and Engineering Department is to empower physics and engineering majors, as well as other students, to prepare for continuing education in a professional school, graduate school, and/or the job market, and to help them integrate science with their faith in God.

## **Physics**

Many doors of service await students who study physics. Southern Adventist University physics major graduates have become academy and high school teachers, and professors and researchers in physics, in the U.S.A. and overseas. Also, one or more of them has served as aerospace researcher for the Apollo project, anesthetist, chemical researcher, computer systems manager, computer network manager at large factory, corporation pilot, dentist, medical doctor, full-time homemaker, geologist, historian of science, instructor for fossil-fuel power-plant operators, instructor for nuclear-reactor operators, lawyer, mathematician, nuclear-plant walk-down engineer, oceanographer, oil-drilling engineer, planner for Space Station Freedom, radiologist, reliability designer for long-distance telephone systems, radio station engineer, software engineer, researcher in educational statistics, and team leader of a research group at CERN.

The Physics and Engineering Department offers B.S. and B.A. degrees in Physics and a B.S. in Biophysics. The B.S. degree in Physics gives the strongest physics foundation for any physics-related career. The B.A. degree in Physics with teaching certification is recommended for a career in secondary teaching. The B.S. degree in Biophysics should be considered by students planning on advanced study in the fields of medicine, biophysics, physiology, radiation biology, and bioengineering, particularly in view of a career in medical research.

## **Assessment of the Physics Program**

To help the graduates in Physics evaluate their academic progress and to aid the department in evaluating teaching effectiveness, each senior is required to:

- Take the ETS Major Field Test in Physics.

- Take the physics portion of the GRE if planning to apply to a graduate program in physics. A score above the 35th percentile is necessary for recommendation for graduate study.
- Take PHYS 480 and do original research as a prerequisite.

Alumni are surveyed and studies are prepared comparing GRE results, careers, and graduate-study success. Information gained from the assessments and studies is used to evaluate departmental programs.

## Engineering Studies

Upon completing the two-year engineering studies program, students may transfer directly into the third year at either of two engineering programs with which Southern Adventist University is affiliated. These are the Edward F. Cross School of Engineering at Walla Walla University and the Department of Engineering and Computer Science at Andrews University. Both of these institutions award a Bachelor of Science in Engineering degree. Andrews is located in Michigan and offers concentrations in Electrical and Computer Engineering and Mechanical Engineering. Walla Walla is located in Washington State and offers concentrations in Civil, Computer, Electrical, and Mechanical Engineering and a preprofessional Bachelor of Science degree in Bioengineering. The Bachelor of Science in Engineering programs at both of these institutions are fully accredited by the Accreditation Board for Engineering and Technology (ABET)—the only nationally recognized organization which accredits engineering programs.

While the transition to an affiliate program is simpler than to a non-affiliated one, the Southern Adventist University Engineering Studies Program is compatible with baccalaureate engineering programs of many colleges and universities. A student who wishes to transfer to a non-affiliate program is strongly encouraged to work closely, and early in the planning stages, with an academic adviser at his or her engineering school of choice in addition to the engineering studies adviser.

The Physics and Engineering Department offers an A.S. in Engineering Studies. This degree is designed to prepare students for transfer into a baccalaureate engineering program, although the degree is not required by engineering schools, nor does it provide the qualifications needed for an entry-level engineering position.

## Assessment of the Engineering Studies Program

The engineering studies program is designed to parallel the first two years of the baccalaureate engineering degree at affiliate engineering schools. It is regularly assessed by means of one or two campus visits each year by engineering faculty from these affiliate schools.

## BIOPHYSICS, B.S.

### Required Courses

BIOL 151	General Biology (I-4a) <b>4 hours</b>
BIOL 152	General Biology (I-4a) <b>4 hours</b>
BIOL 311	Genetics <b>4 hours</b>
BIOL 412	Cell and Molecular Biology <b>4 hours</b>

BIOL 418	Animal Physiology <b>3 hours</b>
PHYS 221	University Physics I (I-4d) <b>4 hours</b>
PHYS 222	University Physics II (I-4d) <b>4 hours</b>
PHYS 223	University Physics Laboratory I <b>1 hour</b>
PHYS 224	University Physics Laboratory II <b>1 hour</b>
PHYS 305	Biophysics <b>3 hours</b>
PHYS 310	Modern Physics <b>3 hours</b>
PHYS 325	Advanced Physics Laboratory I <b>1 hour</b>
PHYS 480	Scientific Writing and Presentation (W) <b>1 hour</b>
Physics Electives <b>3 hours</b>	

**Select one (1) hour from the following**

PHYS 295	Directed Study <b>1-3 hours</b>
PHYS 495	Directed Study <b>1-3 hours</b>
PHYS 297	Undergraduate Research in Physics <b>1-2 hours</b>
PHYS 497	Undergraduate Research in Physics <b>1-2 hours</b>

**TOTAL 41 HOURS****Required Cognates**

MATH 200	Elementary Linear Algebra <b>2 hours</b>
MATH 215	Statistics (I-2a) <b>3 hours</b>
MATH 218	Calculus III <b>4 hours</b>
MATH 315	Differential Equations <b>3 hours</b>
CHEM 151	General Chemistry (I-4b) <b>4 hours</b>
CHEM 152	General Chemistry (I-4b) <b>4 hours</b>
CHEM 311	Organic Chemistry <b>4 hours</b>
CHEM 312	Organic Chemistry <b>4 hours</b>
CHEM 361	Biochemistry I <b>4 hours</b>

**Recommended Electives**

CPTR 124	Fundamentals of Programming (S-3d) <b>4 hours</b>
CHEM 362	Biochemistry II <b>3 hours</b>
PHYS 411	Thermodynamics <b>3 hours</b>
PHYS 412	Quantum Mechanics <b>3 hours</b>

**PHYSICS, B.S.****Required Courses**

PHYS 221	University Physics I (I-4d) <b>4 hours</b>
PHYS 222	University Physics II (I-4d) <b>4 hours</b>
PHYS 223	University Physics Laboratory I <b>1 hour</b>
PHYS 224	University Physics Laboratory II <b>1 hour</b>
PHYS 310	Modern Physics <b>3 hours</b>
PHYS 412	Quantum Mechanics <b>3 hours</b>
PHYS 413	Analytic Mechanics <b>3 hours</b>
PHYS 414	Electrodynamics I <b>3 hours</b>
PHYS 415	Electrodynamics II <b>3 hours</b>
PHYS 418	Advanced Quantum Mechanics I <b>3 hours</b>
PHYS 480	Scientific Writing and Presentation (W) <b>1 hour</b>
Physics Electives <b>8-10 hours</b>	

**Select one (1) hour from the following**

PHYS 295	Directed Study <b>1-3 hours</b>
PHYS 495	Directed Study <b>1-3 hours</b>



PHYS 297 Undergraduate Research in Physics **1-2 hours**

PHYS 497 Undergraduate Research in Physics **1-2 hours**

**TOTAL 40 HOURS**

*NOTE: Computers are used routinely in all of these courses.*

*Students are encouraged to become student members of the American Physical Society and to purchase a book of mathematical tables or a computer-based mathematics resource.*

## **PHYSICS, B.A.**

### **Required Courses**

PHYS 155 Descriptive Astronomy: Creation and Cosmology (I-4d) **3 hours**

PHYS 221 University Physics I (I-4d) **4 hours**

PHYS 222 University Physics II (I-4d) **4 hours**

PHYS 223 University Physics Laboratory I **1 hour**

PHYS 224 University Physics Laboratory II **1 hour**

PHYS 310 Modern Physics **3 hours**

PHYS 412 Quantum Mechanics **3 hours**

PHYS 480 Scientific Writing and Presentation (W) **1 hour**

Physics Electives (7 UD) **10 hours**

**TOTAL 30 HOURS**

### **Strongly Recommended Electives**

CPT 105 Introduction to Word Processing (I-2c) **1 hour**

CPT 106 Introduction to Spreadsheets (I-2c) **1 hour**

CPT 107 Introduction to Database (I-2c) **1 hour**

PHYS 400 Physics Portfolio **1 hour**

## **PHYSICS, TEACHER CERTIFICATION, 7–12, B.A.**

Secondary certification in Physics requires a baccalaureate degree and completion of professional education courses (Requirements for Certification) for licensure.

The student must apply for Initial Admission to the Teacher Education Program (usually by the end of the sophomore year) after completing all requirements as outlined under **ADMISSION PROCEDURES** in the School of Education and Psychology section of the *Catalog*. Initial admission is required before the student can enroll in upper division education courses.

The student must also complete an application and all other requirements for Admission to Student Teaching. Prior to the professional semester, the student must take and pass the **PRAXIS II** licensure exam—both the appropriate section of the Principles of Learning and Teaching, and the particular specialty test(s) for the licensure area(s).

### **Required Courses**

PHYS 155 Descriptive Astronomy: Creation and Cosmology (I-4d) **3 hours**

PHYS 221 University Physics I (I-4d) **4 hours**

PHYS 222 University Physics II (I-4d) **4 hours**

PHYS 223 University Physics Laboratory I **1 hour**

PHYS 224 University Physics Laboratory II **1 hour**

PHYS 310 Modern Physics **3 hours**

## 250 | Physics and Engineering

PHYS 400	Physics Portfolio	<b>1 hour</b>
PHYS 412	Quantum Mechanics	<b>3 hours</b>
PHYS 480	Scientific Writing and Presentation (W)	<b>1 hour</b>
Physics Electives (6 UD)		<b>9 hours</b>
<b>TOTAL 30 HOURS</b>		

### Required Cognates

BIOL 103	Principles of Biology (I-4a)	<b>3 hours</b>
CHEM 111	Survey of Chemistry I (I-4b)	<b>3 hours</b>
CHEM 112	Survey of Chemistry II	<b>3 hours</b>
ERSC 105	Earth Science (I-4c)	<b>3 hours</b>

### Select three (3) hours from the following:

BIOL 424	Issues of Natural Science and Religion (W)	<b>3 hours</b>
RELT 317	Issues in Physical Science and Religion (R-4)	<b>3 hours</b>

### Professional Education Courses

EDUC 138	Introduction to and Foundations of Secondary Education	<b>3 hours</b>
EDUC 319	Technology in Education (I-2b, I-2c)	<b>3 hours</b>
EDUC 338	Foundations of Inclusive Education (SERV-2)	<b>3 hours</b>
EDUC 341	General Methods and Assessment	<b>3 hours</b>
EDUC 342	Curriculum and Content Methods	<b>2 hours</b>
EDUC 343	Learning Theories and Classroom Management	<b>3 hours</b>
EDUC 419	Philosophy and Leadership in Christian Education (W) (SERV-2)	<b>3 hours</b>
EDUC 434	Reading and Writing in the Content Areas	<b>2 hours</b>
EDUC 464	Teaching Seminar	<b>2 hours</b>
EDUC 472	Enhanced Student Teaching 7-12 (SERV-2)	<b>10 hours</b>
EDUC 220	Growth Years (S-2)	<b>3 hours</b>
or PSYC 128	Developmental Psychology (S-2)	<b>3 hours</b>
<b>TOTAL 37 HOURS</b>		

## ENGINEERING STUDIES, A.S.

### Required Courses

ENGR 121	Introduction to Engineering	<b>1 hour</b>
ENGR 149	Introduction to Mechanical Drawing and CADD (S-3d)	<b>3 hours</b>
ENGR 211	Engineering Mechanics: Statics	<b>3 hours</b>
ENGR 212	Engineering Mechanics: Dynamics	<b>3 hours</b>
ENGR 228	Linear Circuit Analysis	<b>3 hours</b>
MATH 191	Calculus I	<b>4 hours</b>
MATH 192	Calculus II	<b>4 hours</b>
MATH 200	Elementary Linear Algebra	<b>2 hours</b>
MATH 218	Calculus III	<b>4 hours</b>
PHYS 221	University Physics I (I-4d)	<b>4 hours</b>
PHYS 222	University Physics II (I-4d)	<b>4 hours</b>
PHYS 223	University Physics Laboratory I	<b>1 hour</b>
PHYS 224	University Physics Laboratory II	<b>1 hour</b>
<b>TOTAL 37 HOURS</b>		

Including general education requirements, a total of 68 hours are required for the A.S. degree in engineering studies. It is important to work closely with an academic adviser.

**Required Cognates**

- CHEM 151 General Chemistry (I-4b) **4 hours**  
CHEM 152 General Chemistry (I-4b) **4 hours**  
CPTR 124 Fundamentals of Programming (S-3d) **4 hours**

**Required General Education**

- COMM 135 Introduction to Public Speaking (I-1c) **3 hours**  
ENGL 101 College Composition I (I-1a) **3 hours**  
ENGL 102 College Composition 2 (I-1b) **3 hours**  
PEAC 125 Fitness for Collegiate Life (P-1a) **1 hour**  
Area I-3a History of Civilization **3 hours**  
Area R-1 RELB 125 or RELT 177  
Area R-2 or R-3 Select 1 course from RELT 138, RELT 225, RELT 255 or any RELB class  
Area S-Complete one Level 1 Christian Service activity and one Level 2 or Level 3 Christian Service activity

**TOTAL 19 HOURS****PHYSICS MINOR****Required Courses**

- Physics Electives **12 hours**  
Upper Division Physics Courses **6 hours**

**TOTAL 18 HOURS**

# School of Religion

**Dean:** Greg A. King

**Faculty:** Stephen Bauer, Michael G. Hasel, Douglas Jacobs, Martin G. Klingbeil, Judson Lake, Donn W. Leatherman, Carlos G. Martin, John S. Nixon, Alan Parker, Edwin Reynolds, Philip G. Samaan, Barry J. Tryon

**Research Professor of Systematic Theology:** Norman R. Gulley

**Adjunct Faculty:** Gordon Bietz, Jack J. Blanco, Michael W. Campbell, David Cook, Fred Fuller, Kevin Kibble, Derek Morris, Douglas Tilstra

**Adjunct Faculty for Evangelism:** Ron E. M. Clouzet, Mark Finley, Robert Folkenberg Sr.

## **Program Coordinators:**

Archaeology, Michael G. Hasel  
Biblical Studies, Donn W. Leatherman  
Missions, Carlos G. Martin  
Pastoral Care, Greg A. King  
Religious Education, Teacher Certification, Judson Lake  
Religious Studies, Greg A. King  
Theology, Greg A. King  
Religion A.A., Alan Parker  
Bible Worker Certification, Alan Parker

## **Evangelism Resource Center Coordinator:**

**Archaeological Museum Coordinator:** Justo Morales

**Soul-winning and Leadership Training Coordinator:** Michelle Doucoumes

## **Mission Statement**

The School of Religion provides biblical, theological, and practical courses to help all university students experience a growing relationship with Jesus Christ, understand His teachings in the context of the Seventh-day Adventist Church, and live ethical lives in harmony with the Scriptures. It also provides quality training in the fields of theology, pastoral care, religious education, religious studies, and archaeology, so its graduates, solidly grounded in Scripture and with a clear burden for others' salvation, become instruments in God's hands to impact the world.

## **Programs and Course Offerings**

### **General Education Courses**

1. To provide instruction in the Scriptures that enhances an intelligent faith in Jesus Christ.
2. To encourage development of a set of values that will provide a basis for moral decision-making in the Christian life.
3. To acquaint the students with the teachings, history, and global mission of the Seventh-day Adventist Church.

### **Theology Major**

1. To provide professional training that prepares graduates to serve the Seventh-day Adventist Church effectively in ministry.
2. To provide an adequate pre-Seminary training in biblical backgrounds, languages, history, theology, and church ministries to meet entrance requirements to the M.Div. degree program offered by Andrews University.
3. To provide instruction and practical experience in church ministries and public evangelism as outlined in the requirements of the Certification for Ministry.

### **Archaeology Major**

1. To provide instruction in the methodology and interpretation of archaeological data as it relates to the people, places, and events of the Bible.
2. To provide the necessary tools and skills for linguistic/exegetical, historical, archaeological, and anthropological analyses.
3. To qualify students to pursue graduate work in Classical or Near Eastern archaeology, museum studies, and to provide a major for students involved in pre-professional programs.

### **Biblical Studies Major**

1. To provide education in Biblical Studies which does not also require the professional training for pastoral ministry or religious education.
2. To prepare students to pursue graduate work in Biblical Studies, to provide a major for students who are involved in pre-professional programs, and to provide a second major for students who are studying other disciplines.
3. To prepare students to become well-informed leaders in local churches.

### **Missions Major**

1. To provide a biblical and theological foundation, as well as practical experience, in the area of missions.
2. To provide training in missions to students who are involved in pre-professional programs.
3. To prepare graduates to serve the church more effectively.

### **Pastoral Care Major**

1. To provide comprehensive, theological, pre-Seminary training for chaplaincy and pastoral care ministries.
2. To supervise pre-Clinical Pastoral Education training for ministries requiring chaplaincy certification.
3. To furnish instruction and practical experience in pastoral and other spiritual caring ministries as outlined in the requirements for the Certification for Pastoral Care and required cognates.

### **Religious Education Major**

1. To prepare the student for state and church certification (in cooperation with the School of Education and Psychology) on the elementary or secondary levels.

2. To support candidates in meeting the requirements of the School of Education and Psychology and its certifying officer by offering a course in Curriculum and Content Methods/Bible and by supervising student teaching.
3. To qualify students to pursue graduate work in biblical and religious studies.

### **Religious Studies Major**

1. To provide a basic education in biblical and religious studies without meeting the professional requirements of other majors.
2. To provide a major for students who are involved in pre-professional programs or who elect a double major, one of which is Religion.
3. To prepare students to become well-informed local church leaders.

### **Bible Instructor or Literature Evangelist (Associate Degree)**

1. To provide courses in biblical and theological studies that will give the student a foundational knowledge of Scripture.
2. To provide instructional and practical experience in the student's chosen emphasis.
3. To prepare students to function within the context and structure of church organization.

### **Effectiveness**

The School of Religion is committed to developing an ongoing assessment and strategy to measure its effectiveness in harmony with the Mission Statement of Southern Adventist University, its own mission statement, and the recommendation of the Southern Association of Colleges and Schools.

### **Faculty Assessment**

The effectiveness of the School of Religion's faculty and programs is directly or indirectly assessed by:

1. Student evaluations of all classes administered regularly through the office of the vice president for academic administration.
2. Majors in the final semester of their senior year.
3. Periodic meetings of the faculty with the chair of the Board and the presidents of conferences within the Southern Union.

### **Student Assessment**

The following forms of assessment pertain to students taking a major in the School of Religion:

1. The 16PF Test is required for all Theology and Pastoral Care majors in their sophomore and senior years. The results are compared with norms established from the performance of successful Adventist pastors on the same test. If a student's scores differ greatly from these norms, the faculty member assigned to administer the test meets with the student to discuss the potential difficulties and to suggest strategies for improvement. This may involve referral to a professional for personal or career counseling.

2. The 16PF Test is administered by the School of Education and Psychology to all Religious Education majors. If the student's scores indicate potential difficulties, the School of Religion is asked to assist in strategies for improvement.
3. A cumulative record of Religious Studies and Archaeology majors is kept as a source of information for recommendation purposes. This record includes academic data and other relevant information.

**NOTE:** *A summary of the evaluations referred to above will be made available in the form of a check sheet to prospective employers who request it and will be signed by the School dean on behalf of the Religion faculty. The School itself cannot guarantee employment.*

## Program Requirements

### Admission to the Theology and Pastoral Care Programs

Students who are taking a major in either Theology or Pastoral Care are required to make formal application to the ministerial program to become a trainee, normally during the first semester of their sophomore year. Transfer students must have completed at least one semester in residence and have sophomore status before applying. The application process should be completed during the fall semester. In evaluating applications, the Religion faculty will consider the student's spiritual and theological commitment, moral character, integrity, emotional stability, grade point average, and social and professional skills in order to determine the applicant's *fitness* for the program and overall potential for success in ministry. Students will be notified of the faculty's decision, and those whose applications are accepted will become ministerial trainees. If at any time after being admitted to the program, trainees give evidence of failure to maintain commitment to the criteria of the ministerial program, including its expectations about spiritual commitment, moral character, or grade point average, they forfeit their standing as trainees and the privilege of being recognized as ministerial candidates in their senior year. Those who have already been accepted as ministerial candidates and then manifest a lack of commitment to the aforementioned criteria of the program will have their candidacy rescinded. Acceptance into the ministerial program as a trainee and approval as a candidate are both required for the completion of either a Theology or a Pastoral Care major. Students not accepted into the program as trainees and/or candidates and those students whose trainee or candidate status is rescinded are not eligible to receive a Theology or Pastoral Care major. However, they may apply to the School of Religion faculty to be allowed to complete a major in Religious Studies.

### Trainees:

Students may apply to the ministerial program for trainee status by mid-term of the first semester of their sophomore year. These applications will be considered during the last half of the first semester and announced by the start of the second semester.

### Qualifications

1. Successful completion of 40 hours of academic credit by the time of the trainee induction service, including ENGL 101, ENGL 102; COMM 135; RELB 125; RELL 181 or RELL 191; RELT 138; RELP 150;
2. An overall grade point average of at least 2.50 and a grade point average

of 2.50 in all religion classes (including biblical languages) completed at the time of application.

3. Completion of at least two semesters in residence at Southern.
4. A record of regular attendance at required activities of the Southern School of Religion.
5. Completion of the 16PF Test within six months prior to application.
6. Completion of the Jackson Vocational Interest Survey (JVIS).
7. Successful completion of the Southern School of Religion Test of Elementary Biblical Knowledge.
8. Successful completion of the Southern School of Religion Test of Elementary Doctrinal Knowledge or RELT 255 Christian Beliefs (R-2).
9. Submission of four references, including at least one from each of the following:
  - A local pastor.
  - A local church elder or church leader.
  - An employer OR work supervisor, OR supervisor of volunteer ministries.
10. Completion of a prescribed semi-structured interview with the student's adviser.
11. Development and submission of a typewritten ministry experience portfolio, including the following:
  - A statement of call (similar, though not necessarily identical to the one written for RELP 150 Introduction to Ministry).
  - Description of church and ministry activity.
  - Description of any volunteer or employment experience in any setting.
  - A statement of personal goals and values.
  - A growth plan based on self-evaluation, the results of standardized tests, and the interview with the adviser.
12. Approval by the School of Religion Faculty Committee based on the following factors:
  - Evaluation of the Ministry Experience Portfolio.
  - Consideration of written recommendations and the recommendation of the adviser.
  - Consideration of academic performance.
  - Consideration of standardized test results.
  - Consideration of the student's reputation in the university, church, and community.

### *Procedure*

The process of application and admission is as follows:

1. Complete the 16PF during the first semester of the sophomore year. This test will typically be offered in early September.
2. Complete the trainee application form (available from the resource secretary) during the Fall semester.



3. Applications for admission as trainees will be considered by the faculty in December. This will allow time for evaluation and additional consultation with students, if necessary.
4. Trainees will be officially inducted into the program at the time of the annual Trainee Induction weekend.

### **Candidates:**

Students will be considered for approval as ministerial candidates at the beginning of the first semester of their senior year. These applications will be considered during the early part of the first semester and announced about the end of September.

#### *Qualifications*

Prior to admission to candidate status, the student should complete the following requirements:

1. Be in the process of completing (within one academic year) the 34-hour major in Theology or the 33-hour major in Pastoral Care.
2. Be in the process of completing (within one academic year) the 20-hour minor in Biblical Languages.
3. Be in the process of completing (within one academic year) the 25 hours required for certification for ministry or the 19 hours required for certification for pastoral care, whichever may apply.
4. Be in the process of completing (within one academic year) the General Education requirements and the required cognates for the B.A. in Theology or Pastoral Care.
5. Maintain an overall grade point average (GPA) of 2.50, and a GPA in Religion of 2.50.
6. Complete the ministerial candidate requirements.
7. Complete a second 16PF test within 12 months prior to application for candidate status.
8. Maintain a record of regular attendance at required activities of the Southern School of Religion.
9. Complete the first Ministerial Externship year with the assigned local congregation.
10. Submit the student's ministerial experience portfolio, including all items required for trainee status (updated to the time of the candidature interview), as well as the following:
  - A current résumé
  - A description of goals for ministry and plans for further education
  - A recommendation by the mentoring pastor
  - A recommendation by a member of the board from the mentoring church
11. Go through the candidature interview.
12. Be approved by the School of Religion Faculty Committee based on the following factors:
  - Evaluation of the ministry experience portfolio.

- Consideration of the recommendations and the recommendation of the adviser.
- Consideration of the student's performance in ministry activities.
- Consideration of academic performance.
- Consideration of the student's reputation in the university, church, and community.

Theology students may apply to the School for variances from #2, #3, and #4 of the above qualifications, including exemptions from one biblical language (Hebrew or Greek), intermediate languages, HIST 364 and HIST 365, and RELP 423, provided they meet the following criteria:

1. Must have attained the age of 35 years prior to applying for these variances.
2. Must transfer in a minimum of 48 semester hours applicable to a degree in theology.
3. Must have been active in church work and be recommended by their local pastor or conference for ministerial training on the basis of this work.
4. Must have individualized study programs accepted by the faculty prior to being approved for the variances indicated above.

### *Procedure*

The process of admission is as follows:

1. Complete the 16PF during the first semester of the senior year. This test will typically be administered in early September.
2. Ministerial candidates will be considered by the faculty in September. This will allow time for evaluation and additional consultation with students, if necessary.
3. A list of candidates approved in this program will be posted about the end of September. In addition, the individuals admitted as candidates will be notified by letter.
4. Candidates will be considered officially approved at the time the list is posted and will be honored in the Ministerial Candidate Recognition service.
5. Students will be eligible to sign up for conference interviews for graduating seniors only following their approval as candidates. If interviews for juniors are requested, students will be eligible only if they have been admitted as trainees.

## **Ministerial Externship**

The School of Religion requires field education of Theology and Pastoral Care majors. The Ministerial Externship Program is designed to enhance professional development by acquainting the student with the multi-faceted responsibilities of ministry. It provides a laboratory setting in membership care, evangelism, church leadership, worship, and preaching by working with experienced mentoring pastors and lay leaders in a local church. The education is necessary before the student can be recommended by the School of Religion for church employment. For students to be approved for participation in the Ministerial Externship Program, they must either be ministerial trainees or receive permission from the School of Religion.

## Field School of Evangelism

Full-scale evangelistic meetings will be conducted for six weeks each summer, under the auspices of the Southern Union Conference of Seventh-day Adventists. In addition, during some summers students may be permitted to participate in a three-week evangelistic series in a mission setting overseas. All Theology majors are required to participate in one such field school. Students planning to take the summer field school program must have earned 55 hours with a 2.50 cumulative grade point average, have taken RELP 321, RELP 322, RELP 361, RELP 362, and RELP 405, and must be accepted as a ministerial trainee in order to be approved for participation in field school. Applications and scholarship information may be obtained from the field school coordinator.

## Pastoral Care Practicum

All Pastoral Care majors are required to participate in a pre-approved ministry practicum, normally offered during the summer. Students planning to take the Pastoral Care practicum must have met all application requirements for consideration. Applications will be available to upper classmen and can be obtained from the School of Religion.

## Admission to Archaeology

The Archaeology major is a liberal arts major for students interested in preparing for graduate studies in archaeology, museum studies, cultural resource management, or as preparation for a professional field such as medicine, dentistry, law, or education. Students choosing to major in Archaeology must consult with the director of the Institute of Archaeology to determine their area of interest in Near Eastern or Classical Studies and to lay plans for participation in the Middle East Study Tour and in the archaeological fieldwork. Archaeology majors are required to serve as museum docents for two hours per week during each semester in residence, for training purposes.

The four-year degree candidate may apply the required 12 hours of General Education courses in religion toward the hours for the major, thus reducing the number of extra courses needed to qualify.

## Admission to Biblical Studies

The Biblical Studies major is a liberal arts major for students interested in preparing for graduate studies in Old or New Testament, as well as for those planning to enter a professional field such as medicine, dentistry, law, or education.

This major provides a thorough exposure to classes in biblical studies. The four-year degree candidate may apply the required 12 hours of General Education courses in religion toward the hours needed for the major.

## Admission to Missions

The Missions major is a liberal arts major for students interested in preparing for medicine, law, development, education, and other graduate studies.

It aims to prepare students to serve as cross-cultural missionaries, as well as to engage in missional living in their local communities. It also helps prepare students for graduate studies in missiology, anthropology, and intercultural studies.

It provides the fundamentals of both biblical and theological studies and practical experience. The four-year degree candidate may apply the required 12 hours of general education courses in religion toward the hours for the major.

### **Admission to Religious Education**

The Religious Education Program is coordinated with the School of Education and Psychology of the University. Planning for certification by the states and/or endorsement by the Seventh-day Adventist church for Bible teaching is made with the certifying officer of the School of Education and Psychology, both for admission to the Religious Education program in the sophomore year and to the professional semester before the senior year.

The student must apply for initial admission to the Teacher Education Program (usually by the end of the sophomore year) after completing all requirements as outlined under “ADMISSION PROCEDURES” in the School of Education and Psychology section of the *Catalog*. Initial admission is required before the student can enroll in upper-division education courses.

The student must also complete an application and all other requirements for admission to Student Teaching. Prior to the professional semester, the student must take and pass the PRAXIS II licensure exam—both the appropriate section of the Principles of Learning and Teaching, and the particular specialty test(s) for the licensure area(s).

The criteria for admission to Religious Education, requirements for secondary Bible teaching, and policies and procedures related to student teaching may be found in the University *Catalog* under the School of Education and Psychology and obtained from the secretary of the School of Education and Psychology in Summerour Hall.

### **Teacher Certification and Endorsement**

Those seeking Tennessee State Certification must fulfill requirements listed in the School of Education and Psychology.

### **Admission to Religious Studies**

The Religious Studies major is a liberal arts major for students interested in preparing for professional fields such as medicine, dentistry, law, and other graduate studies.

It provides a balanced selection of both biblical studies and theology courses. The four-year degree candidate may apply the required 12 hours of General Education courses in religion toward the hours needed for the major, thus reducing the number of extra courses needed to qualify.

### **Admission to Bible Instructor or Literature Evangelist**

The Bible Worker and Literature Evangelist Program is a 64-hour, two-year degree leading to an A.A. in Religion. Students wishing to be recommended for employment as Bible instructors or literature evangelists must be approved by the School of Religion. The School of Religion cannot recommend for employment anyone whose course of study has been inadequate or unapproved.

## General Education Courses in Religion

The objective in all religion courses is to enhance knowledge of and appreciation for the Scriptures, and to assist the student in gaining and maintaining a vital involvement with Jesus Christ and a personal commitment to serve family, church, community, and the world. Six semester hours of religion are required of the two-year graduate, and 12 semester hours of the four-year graduate. This is equivalent to one three-hour course per year, which may be selected from any of the religion courses offered. Bachelor degree students must take at least three semester hours at the upper-division level. (Detailed information on General Education requirements are found in this *Catalog*.)

## Graduation Requirements

The candidates for graduation in the program for **Theology** or for **Pastoral Care** must have a grade point average (GPA) of 2.50 overall, (the same GPA required for entrance to the Seminary), along with a 2.50 aggregate GPA in all required religion classes, including biblical language classes. In addition to their major, they must take 20 hours for the Certification in Biblical Languages, 24/19 hours for the Certification in Ministry/Pastoral Care, and 12/17 hours in cognates to qualify for ministerial candidacy. Additionally, among all the classes required for certification, no more than two classes will be allowed with a grade below "C-", and only in one area of certification. They must also give evidence of moral, physical, social, and intellectual fitness and demonstrate professional commitment in order to achieve and retain trainee and candidate status and for the School of Religion to recommend them as prospective ministerial employees. Students who are not accepted as trainees and/or candidates or who lose said status are not eligible to graduate with a **Theology** or **Pastoral Care** major. However, with the permission of the Religion faculty, these students may be allowed to complete a Religious Studies major. **Archaeology** graduation candidates must have a cumulative GPA of 2.75 and 2.75 in their major. Candidates for the **Biblical Studies** major must have a cumulative GPA of 2.75 and 2.75 in their major. Candidates for the **Missions** major must have a cumulative GPA of 2.50. Those students pursuing the **Religious Education** major must have a GPA of 2.75 overall, and a 2.75 in education and in the field of certification as outlined by the School of Education and Psychology. The **Religious Studies**, as well as the **A.A. in Religion** candidates for graduation, must have a GPA of 2.25 overall and a 2.25 in their major as outlined in this *Catalog*. Where exit examinations are required, the candidate must pass with a score of 75 percent or above prior to graduation.

## ARCHAEOLOGY, B.A.

### Core Courses

RELB 237	Archaeology and the Old Testament (R-3) (R-4) <b>3 hours</b>
RELB 247	Archaeology and the New Testament (R-3) (R-4) <b>3 hours</b>
RELB 340	Middle East Study Tour (R-4) <b>1-3 hours</b> (3 hours required)
RELB 455	Archaeological Fieldwork (R-4) <b>1-6 hours</b> (3 hours required)
RELB 497	Archaeological Method and Theory (R-4) <b>3 hours</b>
REL P 257	Museum Education <b>1 hour</b>
REL P 435	Levantine Ceramic Typology <b>1 hour</b>

### Select six (6) hours from the following:

RELB 477	Exodus, Egyptian Warfare, and Archaeology (R-3) (R-4) (W) <b>3 hours</b>
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- RELB 479 Biblical Imagery and the Archaeology of Near Eastern Images (R-3) (R-4) (W) **3 hours**
- RELB 481 David, Solomon, and the Archaeology of State Formation (R-3) (R-4) (W) **3 hours**
- RELB 483 Sanctuary, Temple, and the Archaeology of Religion (R-3) (R-4) (W) **3 hours**

**TOTAL 23 HOURS**

**Choose one (1) concentration**

### **CLASSICAL STUDIES CONCENTRATION**

#### **Archaeology Core**

- RELL 191 New Testament Greek I (I-3c) **3 hours**
- RELL 192 New Testament Greek II (I-3c) **3 hours**
- RELL 221 Introduction to Biblical Exegesis **2 hours**
- RELL 331 Intermediate Greek **3 hours**
- RELB 435 New Testament Studies I (R-3) (R-4) **3 hours**
- RELB 436 New Testament Studies II (R-3) (R-4) **3 hours**

**TOTAL 17 HOURS**

#### **Required Cognates**

- ARTH 344 Ancient Art History (S-3b) (W) **3 hours**
- ELIT 445 Ancient Classics (S-3a) (W) **3 hours**

#### **Recommended**

- Interm French or German **6 hours**
- ARTH 465 T:Museum Studies **3 hours**

### **NEAR EASTERN STUDIES CONCENTRATION**

#### **Archaeology Core**

- RELL 181 Biblical Hebrew I (I-3c) **3 hours**
- RELL 182 Biblical Hebrew II (I-3c) **3 hours**
- RELL 221 Introduction to Biblical Exegesis **2 hours**
- RELL 330 Intermediate Hebrew **3 hours**
- RELB 245 Old Testament Studies I (R-3) (R-4) **3 hours**
- RELB 246 Old Testament Studies II (R-3) (R-4) **3 hours**

**TOTAL 17 HOURS**

#### **Required Cognate**

- ARTH 344 Ancient Art History (S-3b) (W) **3 hours**

#### **Recommended**

- Interm French or German **6 hours**
- ARTH 465 T:Museum Studies **3 hours**

**TOTAL 40 HOURS**

## **BIBLICAL STUDIES, B.A.**

#### **Required Courses**

- RELB 125 Life and Teachings of Jesus (R-1) **3 hours**
- RELB 237 Archaeology and the Old Testament (R-3) (R-4) **3 hours**
- RELB 245 Old Testament Studies I (R-3) (R-4) **3 hours**
- RELB 246 Old Testament Studies II (R-3) (R-4) **3 hours**
- RELB 247 Archaeology and the New Testament (R-3) (R-4) **3 hours**

RELB 425	Studies in Daniel (R-3) (R-4) (W) <b>3 hours</b>
RELB 426	Studies in Revelation (R-3) (R-4) <b>3 hours</b>
RELB 435	New Testament Studies I (R-3) (R-4) <b>3 hours</b>
RELB 436	New Testament Studies II (R-3) (R-4) <b>3 hours</b>
RELB 495	Directed Study <b>1-3 hours</b> (2 hours required)
RELL 221	Introduction to Biblical Exegesis <b>2 hours</b>
<b>TOTAL 31 HOURS</b>	

### Required Cognates

RELL 181	Biblical Hebrew I (I-3c) <b>3 hours</b>
RELL 182	Biblical Hebrew II (I-3c) <b>3 hours</b>
RELL 330	Intermediate Hebrew <b>3 hours</b>
or RELL 191	New Testament Greek I (I-3c) <b>3 hours</b>
RELL 192	New Testament Greek II (I-3c) <b>3 hours</b>
RELL 331	Intermediate Greek <b>3 hours</b>

## MISSIONS, B.A.

### Required Courses

NOND 099	Student Missions Orientation <b>0 hours [Non-Credit] ***</b>
RELB 125	Life and Teachings of Jesus (R-1) <b>3 hours</b>
RELB 425	Studies in Daniel (R-3) (R-4) (W) <b>3 hours</b>
RELB 426	Studies in Revelation (R-3) (R-4) <b>3 hours</b>
RELP 264	Christian Witnessing (R-4) <b>3 hours</b>
RELP 291	Practicum (SERV-2) <b>1-3 hours</b> (1 hour required) *
RELP 340	World Missions (R-4) <b>3 hours</b>
RELP 405	Evangelistic Preaching (R-4) <b>1 hour</b>
RELP 467	Health Evangelism (R-4) (SERV-2) <b>2-3 hours</b> (3 hours required)
RELT 255	Christian Beliefs (R-2) <b>3 hours</b>
RELT 458	World Religions (W) (R-4) <b>3 hours</b>
RELB 245	Old Testament Studies I (R-3) (R-4) <b>3 hours</b>
or RELB 246	Old Testament Studies II (R-3) (R-4) <b>3 hours</b>
RELB 435	New Testament Studies I (R-3) (R-4) <b>3 hours</b>
or RELB 436	New Testament Studies II (R-3) (R-4) <b>3 hours</b>
RELP 391	Practicum (SERV-2) <b>1-3 hours</b> (2 hours required) **
or NOND 226	Christian Service <b>0-3 hours</b> (2 hours required) **
<b>TOTAL 34 HOURS</b>	

*\*The candidate for this major must complete this Practicum by taking a one-hour missions Practicum in the United States.*

*\*\*The candidate for this major must complete this requirement by conducting an evangelistic series outside North America under the supervision of the Evangelistic Resource Center.*

*\*\*\*The candidate for this major must complete one academic year of student mission experience.*

### Required Cognates

COMM 330	Intercultural Communication (I-3b) (W) <b>3 hours***</b>
SOCI 150	Cultural Anthropology (I-3b) (S-2) <b>3 hours</b>
Intermediate Foreign Language <b>3-6 hours</b>	

**PASTORAL CARE, B.A.****Required Courses**

RELB 125	Life and Teachings of Jesus (R-1) <b>3 hours</b>
RELB 245	Old Testament Studies I (R-3) (R-4) <b>3 hours</b>
RELB 246	Old Testament Studies II (R-3) (R-4) <b>3 hours</b>
RELB 435	New Testament Studies I (R-3) (R-4) <b>3 hours</b>
RELB 436	New Testament Studies II (R-3) (R-4) <b>3 hours</b>
RELP 150	Introduction to Ministry <b>2 hours</b>
RELT 138	Adventist Heritage (R-2) <b>3 hours</b>
RELT 177	Christian Spirituality (R-1) <b>3 hours</b>
RELT 439	Prophetic Ministry of Ellen G. White (R-4) <b>2 hours</b>
RELT 484	Christian Theology I (R-4) <b>3 hours</b>
RELT 485	Christian Theology II (W) (R-4) <b>3 hours</b>
RELB 425	Studies in Daniel (R-3) (R-4) (W) <b>3 hours</b>
or RELB 426	Studies in Revelation (R-3) (R-4) <b>3 hours</b>

**TOTAL 34 HOURS**

In order to graduate with a major in Pastoral Care, a student must also complete 20 hours for Certification in Biblical Languages, 16 hours for Certification in Pastoral Care, and cognate requirements as follows

**Certification in Biblical Languages**

RELL 181	Biblical Hebrew I (I-3c) <b>3 hours</b>
RELL 182	Biblical Hebrew II (I-3c) <b>3 hours</b>
RELL 191	New Testament Greek I (I-3c) <b>3 hours</b>
RELL 192	New Testament Greek II (I-3c) <b>3 hours</b>
RELL 221	Introduction to Biblical Exegesis <b>2 hours</b>
RELL 330	Intermediate Hebrew <b>3 hours</b>
RELL 331	Intermediate Greek <b>3 hours</b>

**TOTAL 20 HOURS****Certification in Pastoral Care**

RELP 270	Interpersonal Ministry <b>2 hours</b>
RELP 321	Introduction to Biblical Preaching <b>2 hours</b>
RELP 322	Intermediate Biblical Preaching <b>2 hours</b>
RELP 361	Personal Evangelism I (R-4) (SERV-2) <b>2 hours</b>
RELP 362	Personal Evangelism II (SERV-2) <b>2 hours</b>
RELP 450	Church Ministry I <b>3 hours</b>
RELP 452	Church Ministry II <b>3 hours</b>

**TOTAL 16 HOURS****Required Cognates**

HIST 364	Christian Church I: From the Early Church Through the Middle Ages (I-3a) (W) <b>3 hours</b>
HIST 365	Christian Church II: From the Reformation Through the Twentieth Century (I-3a) (W) <b>3 hours</b>
PSYC 377	Fundamentals of Counseling <b>3 hours</b>
PSYC 122	General Psychology (S-2) <b>3 hours</b>
or PSYC 128	Developmental Psychology (S-2) <b>3 hours</b>



**Select one (1) course from the following:**

- BIOL 421 Issues in Science and Society (I-4a) (W) **3 hours**  
 PHYS 317 Issues in Physical Science and Religion (I-4d) **3 hours**

**RELIGIOUS EDUCATION, TEACHER CERTIFICATION LICENSURE 7-12, B.A.****Required Courses**

- RELB 125 Life and Teachings of Jesus (R-1) **3 hours**  
 RELB 245 Old Testament Studies I (R-3) (R-4) **3 hours**  
 RELB 246 Old Testament Studies II (R-3) (R-4) **3 hours**  
 RELB 425 Studies in Daniel (R-3) (R-4) (W) **3 hours**  
 RELB 426 Studies in Revelation (R-3) (R-4) **3 hours**  
 RELB 435 New Testament Studies I (R-3) (R-4) **3 hours**  
 RELB 436 New Testament Studies II (R-3) (R-4) **3 hours**  
 RELT 138 Adventist Heritage (R-2) **3 hours**  
 RELT 177 Christian Spirituality (R-1) **3 hours**  
 RELT 439 Prophetic Ministry of Ellen G. White (R-4) **2 hours**  
 RELT 484 Christian Theology I (R-4) **3 hours**  
 RELT 485 Christian Theology II (W) (R-4) **3 hours**

**TOTAL 35 HOURS****Must include 37 hours in Education and 19 hours of cognate requirements as follows****Professional Education Requirements**

- EDUC 138 Introduction to and Foundations of Secondary Education **3 hours**  
 EDUC 319 Technology in Education (I-2b, I-2c) **3 hours**  
 EDUC 338 Foundations of Inclusive Education (SERV-2) **3 hours**  
 EDUC 341 General Methods and Assessment **3 hours**  
 EDUC 342 Curriculum and Content Methods **2 hours**  
 EDUC 343 Learning Theories and Classroom Management **3 hours**  
 EDUC 419 Philosophy and Leadership in Christian Education (W) (SERV-2) **3 hours**  
 EDUC 434 Reading and Writing in the Content Areas **2 hours**  
 EDUC 464 Teaching Seminar **2 hours**  
 EDUC 472 Enhanced Student Teaching 7-12 (SERV-2) **10 hours**  
 EDUC 220 Growth Years (S-2) **3 hours**  
 or PSYC 128 Developmental Psychology (S-2) **3 hours**

**Required Cognates**

- HLED 173 Health for Life (P-2) **2 hours**  
 RELL 221 Introduction to Biblical Exegesis **2 hours**  
 RELP 150 Introduction to Ministry **2 hours**  
 RELP 321 Introduction to Biblical Preaching **2 hours**  
 RELP 322 Intermediate Biblical Preaching **2 hours**  
 RELL 181 Biblical Hebrew I (I-3c) **3 hours**  
 RELL 182 Biblical Hebrew II (I-3c) **3 hours**  
 or RELL 191 New Testament Greek I (I-3c) **3 hours**  
 RELL 192 New Testament Greek II (I-3c) **3 hours**

**Select one (1) course from the following:**

- BIOL 421 Issues in Science and Society (I-4a) (W) **3 hours**  
 PHYS 317 Issues in Physical Science and Religion (I-4d) **3 hours**

## RELIGIOUS STUDIES, B.A.

### Required Courses

RELB 125	Life and Teachings of Jesus (R-1) <b>3 hours</b>
RELB 435	New Testament Studies I (R-3) (R-4) <b>3 hours</b>
RELB 436	New Testament Studies II (R-3) (R-4) <b>3 hours</b>
RELP 264	Christian Witnessing (R-4) <b>3 hours</b>
RELT 138	Adventist Heritage (R-2) <b>3 hours</b>
RELT 177	Christian Spirituality (R-1) <b>3 hours</b>
RELT 255	Christian Beliefs (R-2) <b>3 hours</b>
RELT 373	Christian Ethics (R-4) <b>3 hours</b>
RELT 458	World Religions (W) (R-4) <b>3 hours</b>
RELT 467	Christian Philosophy and Worldviews (R-4) (W) <b>3 hours</b>
RELB 245	Old Testament Studies I (R-3) (R-4) <b>3 hours</b>
or RELB 246	Old Testament Studies II (R-3) (R-4) <b>3 hours</b>
<b>TOTAL 33 HOURS</b>	

## THEOLOGY, B.A.

### Required Courses

RELB 125	Life and Teachings of Jesus (R-1) <b>3 hours</b>
RELB 245	Old Testament Studies I (R-3) (R-4) <b>3 hours</b>
RELB 246	Old Testament Studies II (R-3) (R-4) <b>3 hours</b>
RELB 425	Studies in Daniel (R-3) (R-4) (W) <b>3 hours</b>
RELB 426	Studies in Revelation (R-3) (R-4) <b>3 hours</b>
RELB 435	New Testament Studies I (R-3) (R-4) <b>3 hours</b>
RELB 436	New Testament Studies II (R-3) (R-4) <b>3 hours</b>
RELT 138	Adventist Heritage (R-2) <b>3 hours</b>
RELT 177	Christian Spirituality (R-1) <b>3 hours</b>
RELT 439	Prophetic Ministry of Ellen G. White (R-4) <b>2 hours</b>
RELT 484	Christian Theology I (R-4) <b>3 hours</b>
RELT 485	Christian Theology II (W) (R-4) <b>3 hours</b>
<b>TOTAL 35 HOURS</b>	

*NOTE: The School recommends that those majoring in Theology or Pastoral Care not simultaneously take RELL 181-RELL 182 Biblical Hebrew I, II; RELL 191-RELL 192 New Testament Greek I, II; or RELL 330 Intermediate Hebrew and RELL 331 Intermediate Greek.*

### Required Cognates

HIST 364	Christian Church I: From the Early Church Through the Middle Ages (I-3a) (W) <b>3 hours</b>
HIST 365	Christian Church II: From the Reformation Through the Twentieth Century (I-3a) (W) <b>3 hours</b>
PSYC 122	General Psychology (S-2) <b>3 hours</b>
or PSYC 128	Developmental Psychology (S-2) <b>3 hours</b>

### Select one (1) course from the following:

BIOL 421	Issues in Science and Society (I-4a) (W) <b>3 hours</b>
PHYS 317	Issues in Physical Science and Religion (I-4d) <b>3 hours</b>

In order to graduate with a major in Theology, a student must also complete 20 hours for Certification in Biblical Languages, 24 hours for Certification in Ministry, and cognate requirements as follows

### **Certification in Biblical Languages**

RELL 181	Biblical Hebrew I (I-3c) <b>3 hours</b>
RELL 182	Biblical Hebrew II (I-3c) <b>3 hours</b>
RELL 191	New Testament Greek I (I-3c) <b>3 hours</b>
RELL 192	New Testament Greek II (I-3c) <b>3 hours</b>
RELL 221	Introduction to Biblical Exegesis <b>2 hours</b>
RELL 330	Intermediate Hebrew <b>3 hours</b>
RELL 331	Intermediate Greek <b>3 hours</b>

**TOTAL 20 HOURS**

### **Certification in Ministry**

RELP 150	Introduction to Ministry <b>2 hours</b>
RELP 270	Interpersonal Ministry <b>2 hours</b>
RELP 321	Introduction to Biblical Preaching <b>2 hours</b>
RELP 322	Intermediate Biblical Preaching <b>2 hours</b>
RELP 361	Personal Evangelism I (R-4) (SERV-2) <b>2 hours</b>
RELP 362	Personal Evangelism II (SERV-2) <b>2 hours</b>
RELP 405	Evangelistic Preaching (R-4) <b>1 hour</b>
RELP 423	Advanced Biblical Preaching <b>2 hours</b>
RELP 450	Church Ministry I <b>3 hours</b>
RELP 452	Church Ministry II <b>3 hours</b>
RELP 466	Public Evangelism <b>3 hours</b>
	or NOND 226 Christian Service <b>0-3 hours</b> (3 hours required)

**TOTAL 24 HOURS**

## **RELIGION, A.A.**

This degree is designed to prepare the student to be effective in lay ministry as a Bible instructor or literature evangelist.

### **Core Courses**

RELB 125	Life and Teachings of Jesus (R-1) <b>3 hours</b>
RELP 361	Personal Evangelism I (R-4) (SERV-2) <b>2 hours</b>
RELP 362	Personal Evangelism II (SERV-2) <b>2 hours</b>
RELT 138	Adventist Heritage (R-2) <b>3 hours</b>
RELT 177	Christian Spirituality (R-1) <b>3 hours</b>
RELT 255	Christian Beliefs (R-2) <b>3 hours</b>
RELB 245	Old Testament Studies I (R-3) (R-4) <b>3 hours</b>
	or RELB 246 Old Testament Studies II (R-3) (R-4) <b>3 hours</b>
RELB 435	New Testament Studies I (R-3) (R-4) <b>3 hours</b>
	or RELB 436 New Testament Studies II (R-3) (R-4) <b>3 hours</b>

**TOTAL 22 HOURS**

### **Choose one (1) concentration**

#### **Required Courses for Bible Instructor**

RELP 291	Practicum (SERV-2) <b>1-3 hours</b> (3 hours required)
RELP 321	Introduction to Biblical Preaching <b>2 hours</b>
RELP 270	Interpersonal Ministry <b>2 hours</b>

RELB 425 Studies in Daniel (R-3) (R-4) (W) **3 hours**  
or RELB 426 Studies in Revelation (R-3) (R-4) **3 hours**  
**TOTAL 32 HOURS**

### Required Courses for Literature Evangelist

COMM 406 Persuasion and Propaganda (W) **3 hours**  
PREL 291 Practicum **1-3 hours** (3 hours required)  
or PREL 391 Practicum **1-3 hours** (3 credits required)  
or PREL 492 Public Relations Internship **3 hours**  
**TOTAL 28 HOURS**

### Cognate for both emphases

PSYC 122 General Psychology (S-2) **3 hours**  
or PSYC 128 Developmental Psychology (S-2) **3 hours**  
**TOTAL 28-32 HOURS**

## Bible Worker Certification

### Required Courses

RELP 264 Christian Witnessing (R-4) **3 hours**  
RELP 266 Evangelism Seminar (**0-1 hour**)  
RELP Religion Electives **2 hours**  
RELT 177 Christian Spirituality (R-1) **3 hours**  
RELT 255 Christian Beliefs (R-2) **3 hours**  
RELP 291 Practicum (SERV-2) **1-3 hours** (1 hour required)  
or RELP 391 Practicum (SERV-2) **1-3 hours** (1 hour required)  
RELB 225 Prophetic Studies (R-3) (R-4) **3 hours**  
or RELB 325 Prophetic Studies (R-3) (R-4) **3 hours**  
or RELT 225 Last-Day Events (R-2) **3 hours**  
**TOTAL 15-16 HOURS**

### Other Requirements\*

1. Serve as a part-time Bible worker in a local church for one semester as a student practicum, supervised by both the local pastor and the practicum instructor. An exit report must be given at the end of the practicum.
2. Students must log at least 100 hours of Bible work, of which no fewer than 20 hours should be door-to-door work.
3. Students must conduct at least eight doctrinal Bible studies.
4. Students must participate in a public evangelism series, either through the Evangelistic Resource Center (ERC) or in a local church.

\*Students completing the full SALT (Soul-winning and Leadership Training) program will automatically complete these requirements.

## ARCHAEOLOGY MINOR

### Required Courses

RELB 247 Archaeology and the New Testament (R-3) (R-4) **3 hours**  
RELB 455 Archaeological Fieldwork (R-4) **1-6 hours** (3 hours required)  
RELB 497 Archaeological Method and Theory (R-4) **3 hours**  
RELB 237 Archaeology and the Old Testament (R-3) (R-4) **3 hours**

RELB 245	Old Testament Studies I (R-3) (R-4)	<b>3 hours</b>
RELB 246	Old Testament Studies II (R-3) (R-4)	<b>3 hours</b>
or RELB 435	New Testament Studies I (R-3) (R-4)	<b>3 hours</b>
RELB 436	New Testament Studies II (R-3) (R-4)	<b>3 hours</b>
<b>TOTAL 18 HOURS</b>		

## BIBLICAL LANGUAGES MINOR

### Required Courses

RELL 181	Biblical Hebrew I (I-3c)	<b>3 hours</b>
RELL 182	Biblical Hebrew II (I-3c)	<b>3 hours</b>
RELL 191	New Testament Greek I (I-3c)	<b>3 hours</b>
RELL 192	New Testament Greek II (I-3c)	<b>3 hours</b>
RELL 221	Introduction to Biblical Exegesis	<b>2 hours</b>
RELL 330	Intermediate Hebrew	<b>3 hours</b>
RELL 331	Intermediate Greek	<b>3 hours</b>
<b>TOTAL 20 HOURS</b>		

## EVANGELISM MINOR

### Required Courses

RELT 255	Christian Beliefs (R-2)	<b>3 hours</b>
RELP 264	Christian Witnessing (R-4)	<b>3 hours</b>
Religion Electives (2 hours must be RELP; 6 hours must be UD) (May include MGNT 452) <b>8 hours</b>		
RELP 291	Practicum (SERV-2)	<b>1-3 hours</b> (1 hour required)
or RELP 391	Practicum (SERV-2)	<b>1-3 hours</b> (1 hour required)
or NOND 226	Christian Service	<b>0-3 hours</b> (1 hour required)
RELB 225	Prophetic Studies (R-3) (R-4)	<b>3 hours</b>
or RELB 325	Prophetic Studies (R-3) (R-4)	<b>3 hours</b>
or RELT 225	Last-Day Events (R-2)	<b>3 hours</b>
<b>TOTAL 18 HOURS</b>		

## MISSIONS MINOR

### Required Courses

NOND 099	Student Missions Orientation	<b>0 hours [Non-Credit]</b> *
NOND 226	Christian Service	<b>0-3 hours</b> (1 hour required)**
RELB 125	Life and Teachings of Jesus (R-1)	<b>3 hours</b>
RELP 240	World Missions (R-4)	<b>3 hours</b>
RELP 361	Personal Evangelism I (R-4) (SERV-2)	<b>2 hours</b>
RELT 255	Christian Beliefs (R-2)	<b>3 hours</b>
RELT 458	World Religions (W) (R-4)	<b>3 hours</b>
SOCI 150	Cultural Anthropology (I-3b) (S-2)	<b>3 hours</b>
or SOCI 230	Multicultural Relations (I-3b)	<b>3 hours</b>
<b>TOTAL 18 HOURS</b>		

\*This minor requires the completion of one academic year of student missions.

\*\*The candidate for this minor must complete this requirement by conducting an evangelistic series outside North America under the supervision of the Evangelistic Resource Center.

## PRACTICAL THEOLOGY MINOR

*Non-theology majors must obtain permission from the School of Religion. Prerequisites apply to RELP 321.*

### Required Courses

RELP 270	Interpersonal Ministry	<b>2 hours</b>
RELP 321	Introduction to Biblical Preaching	<b>2 hours</b>
RELP 322	Intermediate Biblical Preaching	<b>2 hours</b>
RELP 361	Personal Evangelism I (R-4) (SERV-2)	<b>2 hours</b>
RELP 362	Personal Evangelism II (SERV-2)	<b>2 hours</b>
RELP 450	Church Ministry I	<b>3 hours</b>
RELP 452	Church Ministry II	<b>3 hours</b>
NOND 226	Christian Service	<b>0-3 hours</b> (3 hours required)
or RELP 391	Practicum (SERV-2)	<b>1-3 hours</b> (3 hours required)
or RELP 466	Public Evangelism	<b>3 hours</b>

**TOTAL 19 HOURS**

## RELIGION MINOR

Those seeking state certification and/or denominational endorsement for teaching in other areas could, with careful selection, also acquire a minor in Religion.

All who wish to obtain teacher certification in Religion must have a Religion minor plus EDUC 342 Curriculum and Content Methods (2 hours).

### Required Courses

RELB 125	Life and Teachings of Jesus (R-1)	<b>3 hours</b>
RELT 138	Adventist Heritage (R-2)	<b>3 hours</b>
UD RELB or RELT Courses		<b>6 hours</b>
Religion Electives (may incl RELP)		<b>6 hours</b>

**TOTAL 18 HOURS**

*No more than one of the following courses may be chosen to apply toward the minor: RELT 317, RELT 421.*

## YOUTH MINISTRY MINOR

### Required Courses

PSYC 422	Issues in Adolescence	<b>3 hours</b> *
RELP 251	Introduction to Youth Ministry (R-4)	<b>3 hours</b>
RELP 252	Intermediate Youth Ministry (R-4)	<b>3 hours</b> *
RELT 255	Christian Beliefs (R-2)	<b>3 hours</b>
EDOE 301	Outdoor Ministries (SERV-2)	<b>3 hours</b>
or OUTL 136	Survey of Outdoor Adventures	<b>3 hours</b>
RELB 245	Old Testament Studies I (R-3) (R-4)	<b>3 hours</b> *
or RELB 246	Old Testament Studies II (R-3) (R-4)	<b>3 hours</b> *
RELB 435	New Testament Studies I (R-3) (R-4)	<b>3 hours</b>
or RELB 436	New Testament Studies II (R-3) (R-4)	<b>3 hours</b>

**TOTAL 21 HOURS**

*\*Academic requirements apply*

# School of Social Work

**Dean:** Kristie Wilder

**Faculty:** Evie Nogales Baker (Field Director), Mioara Diaconu, René Drumm, Annette Heck (BSW Program Director), Lorri Merchant, Magdana Philossaint, Corneliu Rusu, D. Laura Racovita-Szilagy

**Adjunct Faculty:** Bennett Judkins, Michelle Snow

**Program Coordinator:** Annette Heck

**Website:** <http://southern.edu/socialwork>

## Philosophy

The philosophy of the School of Social Work and faculty rests on the cornerstones of social justice and service. Social justice encompasses protecting human rights, caring for God's creation, peacemaking, advocating for the poor and vulnerable, and empowering individuals, families, and communities. Active service to others on campus and to the larger community demonstrates the Biblical message of peace and social justice.

## Academic Standing

The School of Social Work is committed to academic excellence in both majors. A grade of a C or better is required in all core social work (SOCW) classes. Social work majors must maintain an overall GPA of 2.50 or higher to be admitted into the program and to remain in the program.

## Programs in the School of Social Work

The School of Social Work offers a degree in Social Work (accredited by the Council on Social Work Education) and minors in Behavioral Science and Sociology.

## Social Work

The study of social work is one of the most exciting and important fields of inquiry and practice within the human sciences. A historic and defining feature of the social work profession is its focus on individual well-being within a social context coupled with a keen interest in the well-being of society as a whole. Particular attention is given to the needs and empowerment of people who are vulnerable, oppressed, and living in poverty. Fundamental to social work is its emphasis on environmental forces that create, contribute to, as well as ameliorate problems of human existence.

## Social Work Program Mission Statement

The mission of the social work program is to prepare students within a Christian learning environment for service and excellence in generalist, evidence-based practice.

## Bachelor of Science in Social Work

The Bachelor of Science in Social Work (BSW) prepares students for entry-level social work generalist baccalaureate practice. The BSW is the foundation

degree for social work careers in mental health, child welfare, health care, public welfare, schools, family service, developmental disabilities, service to the aged, industry, business and labor, and criminal justice. The degree is designed to also prepare students for informed community participation in social welfare issues. The BSW is the preferred preparation for the terminal graduate practice degree, the Masters of Social Work, (MSW). Job opportunities in the social work field are projected to grow at an above average rate during the near future.

The program makes available a number of experiences, both curricular and extracurricular, to enrich its students' academic experience. Multiple volunteer opportunities deepen understanding and compassion. A number of field experiences enhance commitment and skill building. National and international study tours are available to engender cross-cultural and global perspectives (see below). The center piece of the applied dimension of the curriculum is the 400 hour FIELD PRACTICUM in which each student participates in "real life" experience while being supervised by a seasoned and credentialed professional social worker.

Extracurricular opportunities include membership in the student-led Social Work Club, National Association of Social Workers and the Phi Alpha Honor Society. Social Work Month is celebrated each March.

## **Social Work Program Policies**

Students who are admitted to the social work program are considered adequately mature to realize the importance of accepting personal responsibility for their learning and professional behavior.

The social work program *BSW Student Handbook* outlines the policies of the program. Each student accepted into the program is responsible to become acquainted with and to abide by these policies. The *BSW Student Handbook* is available at [www.southern.edu/socialwork](http://www.southern.edu/socialwork).

Transportation for volunteer and practicum experiences is not provided by the program. Students will be expected to provide their own transportation and make arrangements to share this expense with fellow students participating in the same experiences.

The social work program reserves the right to deny admission to and to remove students from the social work program who have an unresolved felony on record in any state and who have records of misconduct, legal and otherwise, that would jeopardize their professional performance.

The social work program reserves the right to revise, add, and withdraw policies and/or courses as necessary to ensure a quality social work program.

## **Accreditation**

The social work program is accredited by the Council on Social Work Education.

## **Admission Procedures**

### **Admission Criteria**

Admission to Southern Adventist University does not automatically enroll the student in the social work program. Declaration as a social work major is not equivalent of acceptance to the program. The final decision on acceptance



and continuation in the program is made by the program's BSW leadership team (program director and additional faculty members). During the second semester of the sophomore year the student is to file a formal application to the social work program. Application forms may be obtained from the School of Social Work website. The deadline for application is in the school calendar and student handbook. Students must adhere to application deadlines.

Minimum requirements for admission to the program are listed below:

1. Acceptance to Southern Adventist University.
2. Completion of the application form which includes submission of three references and a personal statement that encompasses autobiographical information and perspective on various social issues. The personal statement is primarily intended for the faculty to become familiar with the student in order to improve the quality of advisement. In addition, the statement provides a context of the student's motivation for a career in the social work profession and his or her understanding of the profession. The personal statement is used to gauge student writing abilities and provide early intervention if a student needs to improve his or her writing skills.
3. Submission of a current Program Evaluation (degree audit).
4. Having an overall grade point average of 2.50 or higher.
5. Having completed (with a grade of C or higher) SOCW 211 Introduction to Social Work (F-1), SOCW 212 Social Welfare as an Institution (F-1), and SOCW 213 Interviewing Skills. Having completed cognate courses BIOL 103 Principles of Biology (E-1), PSYC 122 General Psychology (F-1), and SOCI 125 Introduction to Sociology (F-1). Exceptions may be made for persons who do not meet introductory course and cognate requirements if they are strong candidates on the basis of other criteria.
6. Participation in social work sponsored activities (convocations, vespers, community service activities, etc.).
7. Having demonstrated ethical behavior as outlined by the National Association of Social Workers Code of Ethics. Further references may be required regarding character, attitude, and coping ability in case of a question in this area.
8. Students whose native language is not English must achieve at least 550 on the Test of English as a Foreign Language (TOEFL).
9. Completion of a successful interview with the BSW leadership team. The purpose of the interview is to clarify documentation and review any issues raised in the autobiography and essay.

BSW leadership team reviews the application material, conducts the interview, and makes a decision concerning the application. Applicants are notified of the team's decision by a letter from the program director. An applicant denied admission to the social work program may appeal the denial decision in person and/or in writing to the BSW leadership team. If this process is unsatisfactory to the student, the University appeals process described in this Catalog may be followed.

## Transfer Students

Students intending to major in social work who are attending other colleges or universities, or who are transferring from another major at Southern Adventist

University, will be expected to apply for admission to the Social Work Program.

Those applying to the social work major after their sophomore year will be considered on a case by case basis. This may delay admission consideration until the following semester and may result in graduation taking more than four years.

The social work program seeks to maintain a heterogenous student body by enrolling students who represent diverse backgrounds and cultural perspectives.

## Field Practicum

The social work field practicum is designed to provide students with a chance to practice the theories and skills learned in the classroom. The practice of social work is a combination of theory and interpersonal skills with the field practicum a key component of the educational process. The focus of the field practicum is on the interactional process between student worker and client system(s) and use of specific interventions; students have the opportunity to connect the theory and knowledge with actual practice experience. This experience is essential to developing the entry level helping skills required of all undergraduate social work professionals. The nature of the field practicum is practice-oriented, builds on skills and theories learned in cognate social work classes, and involves direct contact and intervention with individuals, families, and groups. Only social work majors may take the field practicum and must have met the required prerequisites. The field practicum experience is eight (8) credit hours which are taken concurrently with the Integrative Field Seminar.

## Field Practicum Admission

In the winter semester of the junior year, following the completion of most required prerequisite courses, students begin the application process for the social work field practicum, which is a requirement for graduation with a BSW degree. All students entering the field practicum must have a GPA of 2.50 or higher in all classes designated SOCW in order to be considered academically eligible for the field practicum. Since the primary purpose of social work education is to prepare students for entry-level social work positions, quality field placements are essential. The placements are designed to provide students with a chance to put into practice the theories and skills they have learned in the classroom.

All students applying to the Field Practicum must have completed these courses or have these courses completed by the end of the semester in which they apply:

These courses are:

SOCW 310	Social Work Practice I (W)
SOCW 311	Human Behavior and the Social Environment I
SOCW 312	Human Behavior and the Social Environment II
SOCW 319	Social Work Practice II (W)
SOCW 391	Junior Field Practicum

## Department Study Tours

The School of Social Work sponsors a study tour to New York City yearly during Thanksgiving vacation and a study tour to Europe every other summer. The objectives of these tours are to facilitate a better understanding of

peoples and cultures and to enable the participants to work with people more effectively. Academic credit is given for these tours and each requires classroom time (see SOCI 294/SOCI 494, SOCW 294/SOCW 494, SOCI 296/SOCI 496, SOCW 296/SOCW 496).

## **SOCIAL WORK, B.S.W.**

### **Required Courses**

SOCW 211	Introduction to Social Work	<b>3 hours</b>
SOCW 212	Social Welfare as an Institution	<b>3 hours</b>
SOCW 213	Interviewing Skills	<b>3 hours</b>
SOCW 310	Social Work Practice I (W)	<b>4 hours</b>
SOCW 311	Human Behavior and the Social Environment I	<b>3 hours</b>
SOCW 312	Human Behavior and the Social Environment II	<b>3 hours</b>
SOCW 319	Social Work Practice II (W)	<b>4 hours</b>
SOCW 391	Junior Field Practicum	<b>1-3 hours</b> (1 hour required)
SOCW 428	Social Work Practicum I (SERV-2)	<b>3 hours</b>
SOCW 429	Social Work Practicum II (SERV-2)	<b>3 hours</b>
SOCW 434	Social Welfare Issues and Policies	<b>3 hours</b>
SOCW 441	Integrative Seminar I	<b>1 hour</b>
SOCW 442	Integrative Seminar II	<b>1 hour</b>
SOCW 497	Research Methods (W)	<b>3 hours</b>

**TOTAL 38 HOURS**

### **Required Cognates**

BIOL 103	Principles of Biology (I-4a)	<b>3 hours</b>
MATH 215	Statistics (I-2a)	<b>3 hours</b>
PSYC 122	General Psychology (S-2)	<b>3 hours</b>
SOCI 125	Introduction to Sociology (S-2)	<b>3 hours</b>
ECON 213	Survey of Economics (I-5)	<b>3 hours</b>
or PLSC 254	American National and State Government (I-3b)	<b>3 hours</b>

## **BEHAVIORAL SCIENCE MINOR**

### **Required Courses**

PSYC 122	General Psychology (S-2)	<b>3 hours</b>
SOCI 125	Introduction to Sociology (S-2)	<b>3 hours</b>
SOCW 211	Introduction to Social Work	<b>3 hours</b>
Electives (6 UD)		<b>9 hours</b> *

**TOTAL 18 HOURS**

*\*An additional nine hours selected from any Social Work or Family Studies areas with a minimum of six hours of upper division Social Work or Family Studies classes.*

## **SOCIOLOGY MINOR**

### **Required Courses**

SOCI 125	Introduction to Sociology (S-2)	<b>3 hours</b>
SOCI 150	Cultural Anthropology (I-3b) (S-2)	<b>3 hours</b>
Sociology Electives (6 UD)		<b>12 hours</b>

**TOTAL 18 HOURS**

# Technology

**Chair:** Ray Carson

**Faculty:** Dale Walters, John Youngberg

**Adjunct Faculty:** Steve Oskins

**Program Coordinators:**

Architectural Drafting, Ray Carson

Auto Service, Dale Walters

Construction Management, John Youngberg

Auto Service Technician Certificate, Dale Walters

**Professional Advisory Board:** The Advisory Board serves in a consultancy capacity and assists in referrals for practicum.

Don Britton, Owner, Don Britton Transmission

Sid Crandall, Architect

Joe Farrow, Engineer

Dan Gebhard, Plumber

Michael Holman, General Contractor/Drafter

Steven Karst, General Contractor

Wayne Starr, Former Education Administrator

Dave Turner, General Contractor

J. B. Underwood, Owner, Collegedale Central Exxon

The mission of the Technology Department at Southern is to promote the development of practical skills in a Christian environment while learning responsibility to God and community through service.

Objectives:

1. To provide students with hands-on experiences to develop technical skills.
2. To expose students to career opportunities in technical and service occupations.
3. To provide opportunities to learn technical skills and knowledge for careers and lifelong enjoyment through hobbies.
4. To provide the necessary prerequisite knowledge and skills for specialized technical and professional occupations.
5. To provide the opportunity for critical thinking, problem solving, and creative skill development in God's service.

## Assessment

All automotive technology students will be given the NIASE (National Institute of Automotive Service Excellence) certification exams as specified by the department. Students who pass the exams become eligible for ASE certification after two years of experience following their training. Students completing the two year degree will have one year of the two years of experience required for certification completed.

## ARCHITECTURAL DRAFTING, A.T.

Students are taught drafting skills and standards using the tools and software used by the industry. Computer-Aided Design (CAD) drafting training will educate you in preparing technical drawings used in construction and manufacturing. This includes such things as residential home construction, commercial building construction, mapping and survey information, machinery, aviation and spacecraft, and more.

### Required Courses

TECH 147	Methods and Materials of Construction	<b>2 hours</b>
TECH 149	Introduction to Mechanical Drawing and CADD (S-3d)	<b>3 hours</b>
TECH 150	Blueprint Reading	<b>3 hours</b>
TECH 151	Introduction to Architectural Drafting and CADD (S-3c) (SERV-2)	<b>3 hours</b>
TECH 248	CADD Mechanical (I-2c)	<b>3 hours</b>
TECH 328	Advanced Architectural Drafting	<b>3 hours</b>
TECH 348	3D CAD Drafting	<b>3 hours</b>
TECH 492	Internship	<b>3 hours</b>
<b>TOTAL 23 HOURS</b>		

### Required Cognates

ACCT 103	College Accounting (I-5)	<b>3 hours</b>
ART 104	Drawing I (S-3c)	<b>3 hours</b>
ART 109	2D Foundations-Plane and Color (S-3c)	<b>3 hours</b>
BUAD 126	Introduction to Business (I-5)	<b>3 hours</b>
MATH 111	Survey of Mathematics (I-2a)	<b>3 hours</b>
MGNT 371	Principles of Entrepreneurship	<b>3 hours</b>
MGNT 372	Small Business Management	<b>3 hours</b>
TECH 278	History of Architecture	<b>3 hours</b>
TECH	Electives	<b>2 hours</b>

### General Education

#### Area R

RELB/RELT	<b>3 hours</b>
<b>TOTAL 3 HOURS</b>	

#### Area I-1a

ENGL 101	College Composition I (I-1a)	<b>3 hours</b>
<b>TOTAL 3 HOURS</b>		

#### Area I-1c

COMM 135	Introduction to Public Speaking (I-1c)	<b>3 hours</b>
<b>TOTAL 3 HOURS</b>		

#### Area I-2b

CPT 100	Computer Concepts (I-2b)	<b>1 hour</b>
<b>TOTAL 1 HOUR</b>		

#### Area I-2c

CPT 105	Introduction to Word Processing (I-2c)	<b>1 hour</b>
CPT 106	Introduction to Spreadsheets (I-2c)	<b>1 hour</b>
<b>TOTAL 2 HOURS</b>		

**Area S-1**NOND 101 Southern Connections (S-1) **1 hour****TOTAL 1 HOUR****Area S-2**Personal and/or Social Adjustment **3 hours****TOTAL 3 HOURS****Area P-1a**PEAC 125 Fitness for Collegiate Life (P-1a) **1 hour****TOTAL 1 HOUR****AUTO SERVICE, A.T.**

The auto service technician program is designed to train the student to repair late model automobiles. The student is trained to provide repair services in transmission, transaxles, drivetrain/axles, heat/air-conditioning, ignitions, fuel systems, and computerized automobiles. Students will be working on projects in a live operating repair shop environment. By the end of the second year the student will have completed over 1,124 hours of instruction and lab experience. They will have developed skills in the following areas:

- Major engine repair
- Drivability diagnosis and computer systems repair
- Alignments and chassis repair
- Manual and automatic transmissions
- Brakes and drivetrain
- Heating and air conditioning
- Electrical repair

**Required Courses**

TECH 114	Oxy-Acetylene Welding (S-3d) <b>1 hour</b>
TECH 115	Arc Welding (S-3d) (SERV-2) <b>2 hours</b>
TECH 166	Auto Electrical Systems (S-3d) <b>2 hours</b>
TECH 167	Suspension, Steering and Alignment <b>3 hours</b>
TECH 168	Manual Drive Train, and Axles (S-3d) <b>3 hours</b>
TECH 169	Automotive Brakes (S-3d) <b>3 hours</b>
TECH 178	Heating and Air Conditioning (S-3d) <b>2 hours</b>
TECH 230	Automatic Transmission <b>3 hours</b>
TECH 264	Automotive Repair (S-3d) <b>3 hours</b>
TECH 273	Estimating and Automotive Business Practices <b>1 hour</b>
TECH 277	Engine Fuel and Emission Controls <b>4 hours</b>
TECH 291	Practicum <b>1-3 hours</b> (3 hours required)
TECH 299	Advanced Engine Performance <b>3 hours</b>
TECH 175	Engine Rebuilding and Machining (S-3d) <b>4 hours</b>
	or TECH 375 Engine Rebuilding and Machining <b>4 hours</b>
TECH 276	Engine Performance and Computers (S-3d) <b>3 hours</b>
	or TECH 377 Engine Performance and Computers <b>3 hours</b>

**TOTAL 40 HOURS****Required Cognates**ACCT 103 College Accounting (I-5) **3 hours**

BUAD 126	Introduction to Business (I-5) <b>3 hours</b>
MGNT 371	Principles of Entrepreneurship <b>3 hours</b>
MGNT 372	Small Business Management <b>3 hours</b>

### **General Education**

#### **Area R**

RELB/RELT	<b>3 hours</b>
<b>TOTAL</b>	<b>3 HOURS</b>

#### **Area I-1a**

ENGL 101	College Composition I (I-1a) <b>3 hours</b>
<b>TOTAL</b>	<b>3 HOURS</b>

#### **Area I-2a**

MATH 111	Survey of Mathematics (I-2a) <b>3 hours</b> or higher
<b>TOTAL</b>	<b>3 HOURS</b>

#### **Area I-2b**

CPT 100	Computer Concepts (I-2b) <b>1 hour</b>
<b>TOTAL</b>	<b>1 HOUR</b>

#### **Area I-2c**

CPT 105	Introduction to Word Processing (I-2c) <b>1 hour</b>
CPT 106	Introduction to Spreadsheets (I-2c) <b>1 hour</b>
<b>TOTAL</b>	<b>2 HOURS</b>

#### **Area S-1**

NOND 101	Southern Connections (S-1) <b>1 hour</b>
<b>TOTAL</b>	<b>1 HOUR</b>

#### **Area S-2**

Personal and/or Social Adjustment	<b>3 hours</b>
<b>TOTAL</b>	<b>3 HOURS</b>

#### **Area P-1a**

PEAC 125	Fitness for Collegiate Life (P-1a) <b>1 hour</b>
<b>TOTAL</b>	<b>1 HOUR</b>

## **CONSTRUCTION MANAGEMENT, A.T.**

This program prepares the students to become professional constructors/managers in the construction industry. This program focuses on the use of State of the Art Technologies in Computer-Aided Drafting (CAD), reading plans, using spreadsheets and databases, and construction equipment and process used on the job. Students are taught to manage the functions and processes of every aspect of the construction industry. The curriculum is a well-rounded study and offers hands-on experience along with guidance of industry professionals.

### **Required Courses**

TECH 104	Field Engineering (S-3d) <b>1 hour</b>
TECH 113	Industrial Safety <b>1 hour</b>

TECH 132	Electrical—Residential <b>3 hours</b>
TECH 133	Plumbing—Residential <b>1 hour</b>
TECH 134	HVAC and Insulation <b>1 hour</b>
TECH 135	Finishes—Drywall, Painting, Tile, and Trimwork <b>1 hour</b>
TECH 140	Structures and Analysis I <b>2 hours</b>
TECH 147	Methods and Materials of Construction <b>2 hours</b>
TECH 150	Blueprint Reading <b>3 hours</b>
TECH 151	Introduction to Architectural Drafting and CADD (S-3c) (SERV-2) <b>3 hours</b>
TECH 152	Structures and Analysis II <b>2 hours</b>
TECH 171	Concrete—Residential <b>2 hours</b>
TECH 172	Masonry—Residential <b>2 hours</b>
TECH 173	Carpentry—Residential <b>2 hours</b>
TECH 255	Construction Estimating <b>3 hours</b>
TECH 262	Construction Contract Administration <b>2 hours</b>
TECH 266	Topics in Construction <b>1-2 hours</b> (1 hour required)
TECH 270	Service in Construction (SERV-2) <b>1-2 hours</b> (1 hour required)
<b>TOTAL 33 HOURS</b>	

**Required Cognates**

ACCT 103	College Accounting (I-5) <b>3 hours</b>
MGNT 334	Principles of Management <b>3 hours</b>
MGNT 371	Principles of Entrepreneurship <b>3 hours</b>
MGNT 372	Small Business Management <b>3 hours</b>

**General Education**

**Area R**

RELB/RELT **3 hours**  
**TOTAL 3 HOURS**

**Area I-1a**

ENGL 101 College Composition I (I-1a) **3 hours**  
**TOTAL 3 HOURS**

**Area I-1c**

COMM 135 Introduction to Public Speaking (I-1c) **3 hours**  
**TOTAL 3 HOURS**

**Area I-2a**

MATH course 3 hours (exempt if ACT math is 22 or higher)  
**TOTAL 0-3 HOURS**

**Area I-2b**

Concept based 1 hour  
 CPTE 100 Computer Concepts (I-2b) **1 hour**  
 BUAD 217 Business-Computer Concepts and Applications (I-2b, I-2c) **3 hours** \*  
 CPTR 110 Computational Thinking for the Sciences (I-2b, I-2c) **3 hours** \*  
 \*Covers both concept and skills based course  
**TOTAL 1 HOUR**

**Area I-2c**

Skills based 2 hours  
 CPTE 106 Introduction to Spreadsheets (I-2c) **1 hour**  
 CPTE 105 Introduction to Word Processing (I-2c) **1 hour**



CPT 107 Introduction to Database (I-2c) **1 hour**  
**TOTAL 2 HOURS**

#### Area S-1

NOND 101 Southern Connections (S-1) **1 hour**  
**TOTAL 1 HOUR**

#### Area S-2

Personal and/or Social Adjustment **3 hours**  
**TOTAL 3 HOURS**

#### Area P-1a

PEAC 125 Fitness for Collegiate Life (P-1a) **1 hour**  
**TOTAL 1 HOUR**

## AUTO SERVICE TECHNICIAN

A one-year certificate will be awarded for completing the technical classes of the associate program listed below plus one religion class.

### Required Courses

TECH 114 Oxy-Acetylene Welding (S-3d) **1 hour**  
 TECH 115 Arc Welding (S-3d) (SERV-2) **2 hours**  
 TECH 166 Auto Electrical Systems (S-3d) **2 hours**  
 TECH 167 Suspension, Steering and Alignment **3 hours**  
 TECH 168 Manual Drive Train, and Axles (S-3d) **3 hours**  
 TECH 175 Engine Rebuilding and Machining (S-3d) **4 hours**  
 TECH 178 Heating and Air Conditioning (S-3d) **2 hours**  
 TECH 264 Automotive Repair (S-3d) **3 hours**  
 TECH 276 Engine Performance and Computers (S-3d) **3 hours**  
 TECH 277 Engine Fuel and Emission Controls **4 hours**  
 TECH Auto Service Elective **2 hours**  
 RELB/RELT Religion **3 hours**  
**TOTAL 32 HOURS**

Students will be encouraged to purchase a basic set of tools as employers require employees to provide their own air and hand tools.

## AUTO SERVICE MINOR

### Required Courses

(6 hrs must be UD)

TECH 115 Arc Welding (S-3d) (SERV-2) **2 hours**  
 TECH 166 Auto Electrical Systems (S-3d) **2 hours**  
 TECH 264 Automotive Repair (S-3d) **3 hours**  
 Auto Service Elective **4 hours**  
 TECH 175 Engine Rebuilding and Machining (S-3d) **4 hours**  
 or TECH 375 Engine Rebuilding and Machining **4 hours**  
 TECH 276 Engine Performance and Computers (S-3d) **3 hours**  
 or TECH 377 Engine Performance and Computers **3 hours**  
**TOTAL 18 HOURS**

## **TECHNOLOGY MINOR**

Twelve (12) hours lower division Technology classes

Six [6] hours upper division Technology classes

**TOTAL 18 HOURS**

# School of Visual Art and Design

**Dean:** Randall Craven

**Faculty:** Marc Boyson, Hendel Butoy, David George, Zachary Gray, Ed Guthero, Giselle Hasel, Joe La Com, Nicholas Livanos, Elizabeth Pontvik, Jesse Rademacher

**Adjunct Faculty:** Aaron Adams, John Cline, Leah Hackett, Paul LeJeunesse, Jas Milam

**Visiting Professor:** Rik Swartzwelder

**Visiting Artist:** Eszter Sziksz

**Program Coordinators:**

Animation, Zachary Gray  
Film Production, David George  
Graphic Design, Randall Craven  
Art, Giselle Hasel  
Art-Therapy, Randall Craven  
Art Education K–12, Marc Boyson  
Fine Arts, Elizabeth Pontvik

**Production Company Manager:** Leif Ramsey

**Supporting Institution:** Hunter Museum of American Art

**Industry Advisers:**

Animation: Aaron Adams, Sean Amlaner, Michael Hutchinson, Kevin Jackson, Kevin Lee, Jeff MacNeil, Matt Schiller  
Art History: Adera Causey  
Art Therapy: Carrie Ezell  
Film: Terry Benedict, Martin Doblemeier, Rik Swartzwelder, Thomas Wentworth  
Fine Art: Emily Clawson, Eun Ju Kang, Chang Park, Bob Pennebaker, Alison Stigora, Eszter Sziksz  
Graphic Design: Brian Gray, Dennis Huynh

## Mission

The School of Visual Art and Design at Southern Adventist University provides an environment of artistic and technical excellence that equips students to make a positive impact in their world, acknowledging God as the source of their creativity.

## Assessment

Our primary focus is to help develop individual creativity, commitment, and a strong portfolio, regardless of the discipline. Students in the School of Visual Art and Design will produce and maintain a portfolio of their work from their freshman year onward and will be reviewed by the school's faculty at specified intervals for each major. Recommendations are made, on the basis of these reviews, to aid in student advisement and to guide optimal growth. The effectiveness of the school is determined through scheduled reviews by a portfolio review committee and curriculum assessments by visiting professionals. Due to this School's emphasis on preparation for professional work and service,

a grade point average of 3.00 (B) is required for all internships. In considering the level of discipline and skill required to produce art at a competitive level, for either preparation for graduate school or viability in the industry, we strongly recommend that students achieve a grade point average of B before going on to a subsequent course.

## **Admission**

At the end of the freshmen year all students must pass a formal review in order to be admitted into a degree program offered by the School of Visual Art and Design. Students declaring a major in the SVAD at the beginning of the winter semester will be reviewed at the end of the following academic year. This review is designed to ensure development of the proper fundamental competencies needed to thrive in subsequent coursework. Students participating in the freshman review are expected to display a collection of work completed during their time in the SVAD, and if applicable, any work completed prior to enrollment. Overall performance in essential foundation sequences is evaluated by examining growth in knowledge, artistic thinking, and significant skill development. Students may not enroll in major-specific sophomore level courses until passing this review. Students entering the SVAD by changing majors or transferring from another institution are subject to this same admission process.

## **Transfer Credit**

Transfer students who wish to enroll in an academic program offered by the School of Visual Art and Design may receive credit for art courses taken elsewhere. Transfer credits for art courses are subject to a review and approval process by the SVAD. All credits, which are intended for transfer, must be accompanied by all relevant course work and course descriptions (or syllabus) from the previous institution that is commensurate with the course in question. A review committee will assess the portfolio and course description for each credit transfer request and then ascertain whether credit can actually be transferred. This is designed to help ensure the student's success in a subsequent course. Enrollment is subject to this approval process. All transfer credits specific to the major must be approved by this review process before a student is allowed to register for classes in the SVAD.

## **Studio Courses**

Many courses offered by SVAD are considered studio courses. Studio courses are scheduled in large blocks of time because much of the course work is skill-based, involving individual/collaborative creativity and problem solving. Therefore extended class time is provided to give the student an opportunity to work on projects and assignments under the direct guidance of the instructor. For a typical three credit hour course, the student will receive five contact hours per week.

## **Animation Policies**

### **Character Animation and Effects Animation Admission Requirements**

In addition to completing School of Visual Art and Design admission requirements, animation majors must meet the following criteria before beginning sophomore-level animation courses:

1. Completion of general education ENGL 101.
2. Completion of drawing sequence ART 104 and ART 105 with a “B” grade or better.
3. Completion of design sequence ART 109 and ART 110 with a “C” grade or better.
4. Completion of animation sequence AART 104, AART 106 and AART 108 with a “C” grade or better.
5. Freshman portfolio review committee recommendation.

## **Observational Drawing**

The animation students are expected to develop a lifestyle that includes the habit of drawing from direct observation in order to nurture and maintain their skills. Animation students are expected to keep an active sketchbook practice as a record of these observations. School of Visual Art and Design may provide Open Figure Drawing Sessions as learning opportunities offered outside of formal classes to assist in this goal. Any animation major taking a course that includes an emphasis in drawing may be required to present their sketchbook as part of their class curriculum. The quantity and quality and time commitment will be stated on the course’s syllabus.

## **Film Production Policies**

### **Film Production Admission Requirements**

In addition to completing School of Visual Art and Design admission requirements, film production majors must meet the following criteria before beginning sophomore-level film production courses:

1. Completion of general education ENGL 101.
2. Completion of ART 104 with a “B” grade or better.
3. Completion of design sequence ART 109 and ART 110 with a “C” grade or better.
4. Completion of film production sequence ARTF 114 and ARTF 215 with a “C” grade or better.
5. Freshman portfolio review committee recommendation.

## **Fine Art Policies**

### **Fine Art Admission Requirements**

In addition to completing School of Visual Art and Design admission requirements, fine art majors must meet the following criteria before beginning sophomore-level fine art courses:

1. Completion of general education requirement ENGL 101.
2. Completion of foundation drawing sequence ART 104 and ART 105 with a grade of “B” or better.
3. Completion of foundation design sequence ART 109 and ART 110 with a grade of “B” or better.
4. Freshman portfolio review committee recommendation.

## Graphic Design Policies

### Graphic Design Admission Requirements

In addition to completing School of Visual Art and Design admission requirements, graphic design majors must meet the following criteria before beginning sophomore-level graphic design courses:

1. Completion of general education requirement ENGL 101.
2. Completion of foundation drawing sequence ART 104 and ART 105 with a grade of “C” or better.
3. Completion of foundation design sequence ART 109 and ART 110 with a grade of “C” or better.
4. Completion of graphic design foundation sequence ARTG 115 and ARTG 210 with a grade of “C” or better.
5. Freshman portfolio review committee recommendation.

### ANIMATION, B.S.

The B.S. in Animation is designed for students who will aggressively pursue a career in computer animation. The animation program concentrates on drawing, the fundamentals of motion, 3D design, collaborative work, and personal portfolio development. The curriculum focuses on computer-generated (CG) animation to develop professional skills for working in the animation industry and for graduate school placement. A student who develops the required working skills for character animation can pursue careers in visual effects, videogame art, and commercial animation. Two concentrations are offered: Character Animation and Effects Animation. In the Character Animation concentration, animators will develop advanced skills in animation performance, movement, story development, and acting. Animators in the Effects Animation concentration focus on 3D design, character setup, motion graphics, visual effects animation, compositing, and rendering techniques.

### Animation Core

#### Required Core

AART 104	Principles of Animation I <b>3 hours</b>
AART 106	Principles of Animation II <b>3 hours</b>
AART 108	Introduction to 3D <b>3 hours</b>
AART 212	Storyboarding and Previsualization <b>3 hours</b>
AART 216	Character Animation I <b>3 hours</b>
AART 218	Character Animation II <b>3 hours</b>
AART 236	Visual Development <b>3 hours</b>
AART 242	Character Design <b>3 hours</b>
AART 246	Environment Design <b>3 hours</b>
AART 316	Collaborative Studio <b>3 hours</b>
AART 318	Collaborative Studio <b>3 hours</b>
AART 322	Motion Design (SERV-2) <b>3 hours</b>
AART 426	Senior Studio <b>3 hours</b>
AART 429	Senior Studio <b>4 hours</b>
ART 104	Drawing I (S-3c) <b>3 hours</b>
ART 105	Drawing II <b>3 hours</b>

ART 109	2D Foundations-Plane and Color (S-3c) <b>3 hours</b>
ART 110	3D Foundations-Form and Time <b>3 hours</b>
ARTG 115	Introduction to Computer Graphics (I-2c) <b>3 hours</b>
ARTH 345	Contemporary Art (S-3b) (W) <b>3 hours</b>
<b>TOTAL 61 HOURS</b>	

## **CHARACTER ANIMATION CONCENTRATION**

### **Required Courses**

Animation Core <b>61 hours</b>	
ART 107	Drawing in Motion <b>3 hours</b>
<b>TOTAL 64 HOURS</b>	

### **Required Cognates**

ART 325	Sculpture: The Figure <b>3 hours</b>
ARTF 111	Intro to Film Production <b>3 hours</b>
or ARTF 215	Lighting <b>3 hours</b>
ARTF 320	Post Production <b>3 hours</b>
or ARTI 230	Sound Design <b>3 hours</b>

## **EFFECTS ANIMATION CONCENTRATION**

### **Required Courses**

Animation Core <b>61 hours</b>	
AART 356	Effects Animation <b>3 hours</b>
AART 366	Compositing <b>3 hours</b>
<b>TOTAL 67 HOURS</b>	

### **Required Cognates**

ART 325	Sculpture: The Figure <b>3 hours</b>
ARTI 124	Programming for Artists <b>3 hours</b>
ARTI 230	Sound Design <b>3 hours</b>
or ARTF 320	Post Production <b>3 hours</b>
ARTF 111	Intro to Film Production <b>3 hours</b>
or ARTF 215	Lighting <b>3 hours</b>
<b>TOTAL 64–67 HOURS</b>	

## **FILM PRODUCTION, B.S.**

The major in Film Production is for students who desire to pursue a career in film, video, or commercial production. The program is designed to enable students to fill decision-making positions and create or influence the content of the projects they work on. Film production majors will become familiar with five major aspects of both narrative and documentary filmmaking including the following: directing, producing, screenwriting, field production, and post production. Students are given the opportunity to work on collaborative projects that provide an actual workflow that results in greater self-awareness and accountability to a team, budgets, and a production schedule. Upon graduation, each student portfolio will include two short film productions and a feature-length screenplay.

### **Internship**

The Film Production Internship of 300 clock hours is required of all film

production majors before being eligible for senior-level courses. Fulfillment of this requirement can include customary employment in the field or significant non-coursework projects in the visual arts. It is the student's responsibility to seek and make all arrangements toward obtaining acceptance into this internship. The School of Visual Art and Design assists in the process but does not guarantee acceptance into any position or internship. This valuable experience in production will give the student a perspective on the workplace environment as well as valuable job references.

### Required Courses

AART 212	Storyboarding and Previsualization <b>3 hours</b>
ART 104	Drawing I (S-3c) <b>3 hours</b>
ART 109	2D Foundations-Plane and Color (S-3c) <b>3 hours</b>
ART 110	3D Foundations-Form and Time <b>3 hours</b>
ARTF 111	Intro to Film Production <b>3 hours</b>
ARTF 114	Film Business and Management <b>3 hours</b>
ARTF 215	Lighting <b>3 hours</b>
ARTF 226	Screenwriting I <b>3 hours</b>
ARTF 235	Cinematography <b>3 hours</b>
ARTF 320	Post Production <b>3 hours</b>
ARTF 328	Screenwriting II <b>3 hours</b>
ARTF 353	Directing the Documentary (SERV-2) <b>3 hours</b>
ARTF 372	Senior Project I <b>3 hours</b>
ARTF 422	Directing the Narrative <b>3 hours</b>
ARTF 472	Senior Project II <b>3 hours</b>
ARTF 492	Film Production Internship <b>3 hours</b>
ARTG 115	Introduction to Computer Graphics (I-2c) <b>3 hours</b>
ARTI 230	Sound Design <b>3 hours</b>
AART 366	Compositing <b>3 hours</b>
or AART 322	Motion Design (SERV-2) <b>3 hours</b>
ARTH 318	Art Appreciation (S-3b) (W) <b>3 hours</b>
or ARTH 345	Contemporary Art (S-3b) (W) <b>3 hours</b>

**TOTAL 60 HOURS**

### Required Cognates

BRDC 202	Digital Audio Production <b>3 hours</b>
COMM 326	Film Evaluation (S-3a) (W) <b>3 hours</b>
PHTO 125	Introduction to Photography (S-3c) <b>3 hours</b>

## GRAPHIC DESIGN, B.S.

The Graphic Design program will prepare students to enter the professional practice of design. Today's graphic designers need a broad knowledge base that includes, but is not restricted to, world history, art history, design history, and popular culture and trends. Graphic designers must be familiar with a variety of methods, materials, and techniques that span from traditional, to non traditional, to digital. Graphic design provides multilayered synergistic opportunities beyond print design alone. A graphic designer has multiple creative outlets such as: environmental design, industrial design, web design, and print design. Students will need to master approaching creativity within structure and restriction. Necessary skills will range from ideation to computer applications to physical model constructions. Creativity, problem solving, and a committed and disciplined approach help graduates thrive in this field.



Students will be assisted by instructors in an environment that promotes individual creativity in concert with the highest principles and moral values.

### Required Courses

ART 104	Drawing I (S-3c) <b>3 hours</b>
ART 105	Drawing II <b>3 hours</b>
ART 109	2D Foundations-Plane and Color (S-3c) <b>3 hours</b>
ART 110	3D Foundations-Form and Time <b>3 hours</b>
ARTH 345	Contemporary Art (S-3b) (W) <b>3 hours</b>
ARTG 115	Introduction to Computer Graphics (I-2c) <b>3 hours</b>
ARTG 121	Typography I <b>3 hours</b>
ARTG 122	Typography II <b>3 hours</b>
ARTG 138	Design Studio I <b>3 hours</b>
ARTG 210	Vector Graphics <b>3 hours</b>
ARTG 212	Raster Graphics <b>3 hours</b>
ARTG 238	Design Studio II <b>3 hours</b>
ARTG 324	Editorial Design <b>3 hours</b>
ARTG 332	Advertising Design <b>3 hours</b>
ARTG 335	Three-dimensional Graphic Design <b>3 hours</b>
ARTG 338	Design Studio III <b>3 hours</b>
ARTG 420	Corporate Identity (SERV-2) <b>3 hours</b>
ARTG 432	Senior Design Studio <b>3 hours</b>
ARTG 491	Graphic Design Practicum <b>1-3 hours</b>
<b>TOTAL 55-57 HOURS</b>	

### Required Cognates

AART 322	Motion Design (SERV-2) <b>3 hours</b>
ART 331	Illustration Methods (SERV-2) <b>3 hours</b>
ARTI 324	Interactive Media <b>3 hours</b>
ARTI 424	Advanced Interactive Media <b>3 hours</b>
PHTO 125	Introduction to Photography (S-3c) <b>3 hours</b>

## ART, B.A.

### Required Courses

ART 104	Drawing I (S-3c) <b>3 hours</b>
ART 105	Drawing II <b>3 hours</b>
ART 109	2D Foundations-Plane and Color (S-3c) <b>3 hours</b>
ART 110	3D Foundations-Form and Time <b>3 hours</b>
ART 480	Professional Practices <b>2 hours</b>
Art Electives (7 hrs UD) <b>15 hours</b>	

### Select six (6) hours from the following:

ARTH 318	Art Appreciation (S-3b) (W) <b>3 hours</b>
ARTH 342	Renaissance Art History (S-3b) (W) <b>3 hours</b>
ARTH 344	Ancient Art History (S-3b) (W) <b>3 hours</b>
ARTH 345	Contemporary Art (S-3b) (W) <b>3 hours</b>

**TOTAL 35 HOURS**

## ART-THERAPY EMPHASIS, B.A.

This emphasis is intended for those students who plan to enter a graduate program in art therapy. Graduate school for this career choice is mandatory.

The program endeavors to focus the pre-art therapy student on learning to appreciate art, to understand creative processes, and to develop artistic skills in studio art. In light of available scholarships, we recommend a GPA of no less than 3.25 and a portfolio of original works with no less than twenty (20) pieces, to be eligible for graduate school enrollment. A basic knowledge of human development and psychological theories for understanding human behavior are gained by the completion of the psychology minor. Undergirded by a Christian perspective of human kind and healing, this is an interdisciplinary emphasis that unites the studio arts with the behavioral sciences.

### Required Courses

ART 104	Drawing I (S-3c) <b>3 hours</b>
ART 105	Drawing II <b>3 hours</b>
ART 109	2D Foundations-Plane and Color (S-3c) <b>3 hours</b>
ART 238	Introduction to Art Therapy <b>3 hours</b>
ART 480	Professional Practices <b>2 hours</b>
Studio Art Electives (7 must be UD) <b>12 hours</b>	

### Select six (6) hours from the following:

ARTH 318	Art Appreciation (S-3b) (W) <b>3 hours</b>
ARTH 342	Renaissance Art History (S-3b) (W) <b>3 hours</b>
ARTH 344	Ancient Art History (S-3b) (W) <b>3 hours</b>
ARTH 345	Contemporary Art (S-3b) (W) <b>3 hours</b>
<b>TOTAL 32 HOURS</b>	

### Required Cognates

PSYC 122	General Psychology (S-2) <b>3 hours</b>
PSYC 128	Developmental Psychology (S-2) <b>3 hours</b>
PSYC 224	Social Psychology (S-2) <b>3 hours</b>
PSYC 315	Abnormal Psychology <b>3 hours</b>
PSYC 346	Introduction to Personality Theories <b>3 hours</b>
PSYC 377	Fundamentals of Counseling <b>3 hours</b>

### Recommended General Education

#### Area R

REL P 251	Introduction to Youth Ministry (R-4) <b>3 hours</b>
REL T 373	Christian Ethics (R-4) <b>3 hours</b>

#### Area I-2c

ART G 115	Introduction to Computer Graphics (I-2c) <b>3 hours</b>
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#### Area I-3a

HIST 356	Natives and Strangers (I-3a) (W) <b>3 hours</b>
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#### Area I-4

BIOL 103	Principles of Biology (I-4a) <b>3 hours</b>
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#### Area S-2b

### Recommended Electives

HLED 356	Drugs and Society <b>2 hours</b>
PSYC 422	Issues in Adolescence <b>3 hours</b>
PSYC 460	Group Processes <b>3 hours</b>
PSYC 479	Family Counseling <b>3 hours</b>
SOCI 349	Aging and Society (S-2) (W) (SERV-2) <b>3 hours</b>

## ART EDUCATION K-12, B.F.A.

The B.F.A. in Art Education K-12 prepares students for a rewarding professional career to teach art in various settings, including elementary and secondary schools. Students must apply for admission to the Teacher Education program through the School of Education and Psychology prior to taking education courses.

Students enrolled in this program will be required to maintain a GPA of minimum 2.75 for all major, cognate, education course work, as well as the overall GPA. For further information see the School of Education and Psychology section in the undergraduate *Catalog*.

### Required Courses

ART 104	Drawing I (S-3c) <b>3 hours</b>
ART 105	Drawing II <b>3 hours</b>
ART 109	2D Foundations-Plane and Color (S-3c) <b>3 hours</b>
ART 110	3D Foundations-Form and Time <b>3 hours</b>
ART 221	Painting I <b>3 hours</b>
ART 325	Sculpture: The Figure <b>3 hours</b>
ARTE 338	Elementary Methods in Art <b>3 hours</b>
ARTE 368	Secondary Methods in Art <b>3 hours</b>
ART 480	Professional Practices <b>2 hours</b>
	Studio Art Electives in one discipline <b>6 hours</b>

### Select twelve (12) hours from the following:

ARTH 318	Art Appreciation (S-3b) (W) <b>3 hours</b>
ARTH 342	Renaissance Art History (S-3b) (W) <b>3 hours</b>
ARTH 344	Ancient Art History (S-3b) (W) <b>3 hours</b>
ARTH 345	Contemporary Art (S-3b) (W) <b>3 hours</b>

**TOTAL 12 HOURS**

**TOTAL 44 HOURS**

### Required General Education

#### Area R-1

RELB 125	Life and Teachings of Jesus (R-1) <b>3 hours</b>
	<b>TOTAL 3 HOURS</b>

#### Area R-2

RELT 138	Adventist Heritage (R-2) <b>3 hours</b>
RELT 255	Christian Beliefs (R-2) <b>3 hours</b>
	<b>TOTAL 6 HOURS</b>

#### Area R-4

	UD RELB/RELT course except RELB 125 <b>3 hours</b>
	<b>TOTAL 3 HOURS</b>

#### Area I-1a

ENGL 101	College Composition I (I-1a) <b>3 hours</b>
	<b>TOTAL 3 HOURS</b>

**Area I-1b**

ENGL 102 College Composition 2 (I-1b) **3 hours**  
**TOTAL 3 HOURS**

**Area I-1c**

COMM 135 Introduction to Public Speaking (I-1c) **3 hours**  
**TOTAL 3 HOURS**

**Area I-2a**

MATH course **3 hours**  
**TOTAL 3 HOURS**

**Area I-3a**

HIST course **3 hours**  
**TOTAL 3 HOURS**

**Area I-3c**

World Languages **6 hours**  
**TOTAL 6 HOURS**

**Area I-4**

BIOL, CHEM, ERSC or PHYS **6 hours** (Must take at least 3 hours from each of 2 sub-areas or complete a two semester science sequence course)  
**TOTAL 6 HOURS**

**Area I-5**

ACCT 103 College Accounting (I-5) **3 hours**  
or ACCT 221 Principles of Accounting I (I-5) **3 hours**  
or BUAD 126 Introduction to Business (I-5) **3 hours**  
or BUAD 128 Personal Finance (I-5) **3 hours**  
or ECON 213 Survey of Economics (I-5) **3 hours**  
or ECON 224 Principles of Macroeconomics (I-5) **3 hours**  
or PLSC 224 Principles of Macroeconomics (I-5) **3 hours**  
**TOTAL 3 HOURS**

**Area S-1**

NOND 101 Southern Connections (S-1) **1 hour**  
**TOTAL 1 HOUR**

**Area S-2**

EDUC, PSYC, SOCI, SOCW or PSYC course **3 hours**  
**TOTAL 3 HOURS**

**Area S-3a**

Literature course **3 hours**  
**TOTAL 3 HOURS**

**Area P-1a**

PEAC 125 Fitness for Collegiate Life (P-1a) **1 hour**  
**TOTAL 1 HOUR**

**Area P-1b**ADAC, OLAC, PEAC or RECR course **2 hours****TOTAL 2 HOURS****Area P-1c**PEAC 425 Fit for Hire (P-1c) **1 hour****TOTAL 1 HOUR****Area P-2**HLED 173 Health for Life (P-2) **2 hours****TOTAL 2 HOURS****Recommended Minor Endorsements**

Math, English, History, or Science.

**Professional Education Leading to Licensure K–12**

During the sophomore year, the student must apply to the School of Education and Psychology after completing all of the requirements as outlined in the *Catalog* under Admission Procedures in the School of Education and Psychology section. Prior to the professional semester and student teaching, the student must take and pass the Praxis II—both the appropriate section of the Principles of Learning and Teaching and the particular specialty test(s) for the licensure area(s).

**Required Education Courses**

- EDUC 319 Technology in Education (I-2b, I-2c) **3 hours**
- EDUC 338 Foundations of Inclusive Education (SERV-2) **3 hours**
- EDUC 341 General Methods and Assessment **3 hours**
- EDUC 342 Curriculum and Content Methods **2 hours**
- EDUC 343 Learning Theories and Classroom Management **3 hours**
- EDUC 419 Philosophy and Leadership in Christian Education (W) (SERV-2) **3 hours**
- EDUC 434 Reading and Writing in the Content Areas **2 hours**
- EDUC 464 Teaching Seminar **2 hours**
- EDUC 473 Enhanced Student Teaching K-12 (SERV-2) **10 hours**
- EDUC 129 Introduction to and Foundations of Elementary Education **3 hours**  
or EDUC 138 Introduction to and Foundations of Secondary Education **3 hours**
- EDUC 220 Growth Years (S-2) **3 hours**  
or PSYC 128 Developmental Psychology (S-2) **3 hours**

**TOTAL 37 HOURS****FINE ARTS, B.F.A.**

The B.F.A. (Bachelor of Fine Art) is a professional degree. It is designed to facilitate the development of artists, and their art, for those who desire to enter the field of fine art professionally or to further develop their abilities, and their work, at the graduate level. We desire to discover the creative strengths and interests of each individual and guide students' optimal development. A broad knowledge base comprised of Christianity, philosophy, media, culture, art history, and world history is encouraged for developing understanding and self-awareness as it pertains to the artist's personal content and form. An art history background, covering four major art periods, is necessary in preparation for entrance into a graduate program. Individuals working toward the

B.F.A. are required to have a high level of commitment and integrity toward the creative process and the production of their body of work (portfolio). Students learn, in a studio setting, about the materials and methods of art making. Traditional media is the primary focus, but experimentation with non traditional and new media is encouraged. All fine art majors are expected to have a Solo Senior Exhibit prior to graduation. This is conditional; they must have demonstrated a commitment to their own growth as artists and consistent/contiguous focus on the production of their artwork resulting in no less than twenty (20) original works.

### Required Courses

ART 104	Drawing I (S-3c) <b>3 hours</b>
ART 105	Drawing II <b>3 hours</b>
ART 109	2D Foundations-Plane and Color (S-3c) <b>3 hours</b>
ART 110	3D Foundations-Form and Time <b>3 hours</b>
ART 206	Drawing III – Anatomy <b>3 hours</b>
ART 221	Painting I <b>3 hours</b>
ART 222	Painting II <b>3 hours</b>
ART 340	Introduction to Studio Practices <b>3 hours</b>
ART 370	Studio Practices <b>3 hours</b>
ART 420	Advanced Studio Practices <b>3 hours</b>
ART 470	Thesis Project <b>3 hours</b>
ARTG 115	Introduction to Computer Graphics (I-2c) <b>3 hours</b>
ARTH 218	Art Appreciation (S-3b) <b>3 hours</b>
ARTH 342	Renaissance Art History (S-3b) (W) <b>3 hours</b>
ARTH 344	Ancient Art History (S-3b) (W) <b>3 hours</b>
ARTH 345	Contemporary Art (S-3b) (W) <b>3 hours</b>

**Select eighteen (18) hours from the following: (Three [3] credits may come from schools or departments not listed, with permission of adviser)**

AART 212	Storyboarding and Previsualization <b>3 hours</b>
AART 322	Motion Design (SERV-2) <b>3 hours</b>
ART 235	Ceramics (S-3c) <b>3 hours</b>
ART 300	Printmaking <b>3 hours</b>
ART 310	Painting III <b>3 hours</b>
ART 325	Sculpture: The Figure <b>3 hours</b>
ART 331	Illustration Methods (SERV-2) <b>3 hours</b>
ART 410	Painting IV <b>3 hours</b>
ARTF 111	Intro to Film Production <b>3 hours</b>
ARTF 215	Lighting <b>3 hours</b>
ARTG 210	Vector Graphics <b>3 hours</b>
ARTG 212	Raster Graphics <b>3 hours</b>
ARTI 230	Sound Design <b>3 hours</b>
PHTO 125	Introduction to Photography (S-3c) <b>3 hours</b>
TECH 115	Arc Welding (S-3d) (SERV-2) <b>2 hours</b>
TECH 154	Woodworking (S-3c) (SERV-2) <b>3 hours</b>

**TOTAL 66 HOURS**

### Required Cognate

BMKT 326	Principles of Marketing <b>3 hours</b>
or MGNT 371	Principles of Entrepreneurship <b>3 hours</b>

## GRAPHIC DESIGN, A.S.

### Required Courses

ART 104	Drawing I (S-3c) <b>3 hours</b>
ART 109	2D Foundations-Plane and Color (S-3c) <b>3 hours</b>
ART 110	3D Foundations-Form and Time <b>3 hours</b>
ARTG 115	Introduction to Computer Graphics (I-2c) <b>3 hours</b>
ARTG 121	Typography I <b>3 hours</b>
ARTG 210	Vector Graphics <b>3 hours</b>
ARTG 212	Raster Graphics <b>3 hours</b>
ARTG 338	Design Studio III <b>3 hours</b>
ARTG	Elective <b>3 hours</b>
ARTH 345	Contemporary Art (S-3b) (W) <b>3 hours</b>
<b>TOTAL 30 HOURS</b>	

### Required Cognate

TECH 244	Graphic Production <b>3 hours</b>
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### Recommended General Education

COMM 326	Film Evaluation (S-3a) (W) <b>3 hours</b>
PHTO 125	Introduction to Photography (S-3c) <b>3 hours</b>

## ART EDUCATION MINOR

*\*For Education majors only*

### Required Courses

ART 104	Drawing I (S-3c) <b>3 hours</b>
ART 105	Drawing II <b>3 hours</b>
ART 109	2D Foundations-Plane and Color (S-3c) <b>3 hours</b>
ART 221	Painting I <b>3 hours</b>
ART 325	Sculpture: The Figure <b>3 hours</b>
ART 480	Professional Practices <b>2 hours</b>
ARTE 338	Elementary Methods in Art <b>3 hours</b>
ARTE 368	Secondary Methods in Art <b>3 hours</b>

### Select three (3) hours from the following:

ARTH 318	Art Appreciation (S-3b) (W) <b>3 hours</b>
ARTH 342	Renaissance Art History (S-3b) (W) <b>3 hours</b>
ARTH 344	Ancient Art History (S-3b) (W) <b>3 hours</b>
ARTH 345	Contemporary Art (S-3b) (W) <b>3 hours</b>

**TOTAL 26 HOURS**

*\*NOTE: The education core should be fulfilled in the major area. These art methods classes do not exempt the student from general methods or specific methods required in the major area.*

## ART HISTORY MINOR

### Required Courses

ARTH 218	Art Appreciation (S-3b) <b>3 hours</b>
ARTH 342	Renaissance Art History (S-3b) (W) <b>3 hours</b>
ARTH 344	Ancient Art History (S-3b) (W) <b>3 hours</b>
ARTH 345	Contemporary Art (S-3b) (W) <b>3 hours</b>

- ARTH 492 Art History Internship **3 hours**
  - ARTH 265 Topics in Art History **1-3 hours** (3 hours required)  
or ARTH 465 Topics in Art History **1-3 hours** (3 hours required)
- TOTAL 18 HOURS**

## ART MINOR

### Required Courses

- ART 104 Drawing I (S-3c) **3 hours**
- ART 105 Drawing II **3 hours**
- ART 109 2D Foundations-Plane and Color (S-3c) **3 hours**
- Electives **3 hours**
- Upper Division Electives **3 hours**

### Select three (3) hours from the following:

- ARTH 318 Art Appreciation (S-3b) (W) **3 hours**
- ARTH 342 Renaissance Art History (S-3b) (W) **3 hours**
- ARTH 344 Ancient Art History (S-3b) (W) **3 hours**
- ARTH 345 Contemporary Art (S-3b) (W) **3 hours**

**TOTAL 18 HOURS**

## FILM PRODUCTION MINOR

### Required Courses

- ARTF 111 Intro to Film Production **3 hours**
- ARTF 226 Screenwriting I **3 hours**
- ARTF 320 Post Production **3 hours**
- ARTI 230 Sound Design **3 hours**
- ARTF 215 Lighting **3 hours**  
or ARTF 235 Cinematography **3 hours**
- ARTF 353 Directing the Documentary (SERV-2) **3 hours**  
or ARTF 422 Directing the Narrative **3 hours**

**TOTAL 18 HOURS**

## GRAPHIC DESIGN MINOR

### Required Courses

- ART 104 Drawing I (S-3c) **3 hours**
- ART 109 2D Foundations-Plane and Color (S-3c) **3 hours**
- ARTG 115 Introduction to Computer Graphics (I-2c) **3 hours**
- ARTG 121 Typography I **3 hours**
- ARTG 210 Vector Graphics **3 hours**
- ARTG 212 Raster Graphics **3 hours**
- ARTG 338 Design Studio III **3 hours**
- ARTH 345 Contemporary Art (S-3b) (W) **3 hours**

**TOTAL 24 HOURS**



# Interdepartmental Programs

## General Studies

**Advisement and Program Coordinator:** Sharon Rogers

The Associate of Arts and Associate of Science degrees with a major in General Studies are designed for students who have not made a career decision at the time they enter the University. These degrees offer them an opportunity to earn a large part of the general requirements for a baccalaureate degree while leaving some semester hours free for exploration in areas of their choice.

## MEDICAL SCIENCE, B.S.

**Adviser:** Keith Snyder

A Bachelor of Science Degree in Medical Science will be conferred upon students not already in possession of a bachelor's degree who satisfy the following three conditions:

1. Complete 93 semester hours in an accredited undergraduate university program of which at least the last 30 were taken in residence at Southern Adventist University and at least 12 of which were at the upper division level.
2. Meet the General Education and Cognate requirements equivalent to those outlined for the current Medical Laboratory Science program, except BIOL 329 and BIOL 340 listed under the cognates. These may be replaced by any other biology elective in the Clinical Sciences or Basic Zoology areas or upper division chemistry. (See Medical Laboratory Science, B.S.)
3. Provide certification from an accredited professional school of dentistry, chiropractic, medicine, pharmacy, or optometry that the first year of the respective professional program has been successfully completed and that the applicant is eligible to continue.

The curricula below is for medical, dental, and pharmacy, but not physical therapy school applicants.

Request for the conferral of this degree is made to the Director of Records and Advisement.

### Required Courses

BIOL 151	General Biology (I-4a)	<b>4 hours</b>
BIOL 152	General Biology (I-4a)	<b>4 hours</b>
CHEM 151	General Chemistry (I-4b)	<b>4 hours</b>
CHEM 152	General Chemistry (I-4b)	<b>4 hours</b>
CHEM 311	Organic Chemistry	<b>4 hours</b>
CHEM 312	Organic Chemistry	<b>4 hours</b>
UD Biology/Chemistry Elect		<b>12 hours</b>

### Required Cognates

*\*Waived if equivalent math was taken in high school with minimum grade of B.*

PHYS 211	General Physics I (I-4d)	<b>3 hours</b>
PHYS 213	General Physics Laboratory I	<b>1 hour</b>

MATH 191    Calculus I **4 hours** \*  
 or MATH 215    Statistics (I-2a) **3 hours**

## GENERAL STUDIES, A.A.

**Major:** The completion of the General Education requirements for the Bachelor of Arts degree with the exception: Six hours instead of 12 will be required for Area R, Religion. Six hours of an elementary foreign language must be included unless two units of the same language were earned in high school. A minimum total of 64 semester hours with a cumulative minimum grade point average of 2.00 is required. Students who plan to eventually complete a bachelor's degree should include some upper division credit and a "W" (writing emphasis) course in the second semester of their second year.

*\*Six hours of elementary foreign language must be included unless two units of the same language were earned in high school.*

### Typical Sequence of Courses for A.A. General Studies

#### YEAR 1

##### 1st Semester

ENGL 101    College Composition I (I-1a) **3 hours**  
 NOND 101    Southern Connections (S-1) **1 hour**  
 PEAC 125    Fitness for Collegiate Life (P-1a) **1 hour**  
 Area I-3a    History of Civilization **3 hours**  
 Area I-4    Natural Science **3 hours**  
 Electives **2 hour**  
 RELB 125    Life and Teachings of Jesus (R-1) **3 hours**  
     or RELT 177    Christian Spirituality (R-1) **3 hours**

**TOTAL 16**

##### 2nd Semester

COMM 135    Introduction to Public Speaking (I-1c) **3 hours**  
 CPTC 100    Computer Concepts (I-2b) **1 hour**  
 ENGL 102    College Composition 2 (I-1b) **3 hours**  
 Area S-2    Personal and/or Social Adjustment **3 hours**  
 Area S-3    Aesthetic and Skills Development **3 hours**  
 Electives **3 hours**

**TOTAL 16**

#### YEAR 2

##### 1st Semester

Area R2 or R3    SDA Teachings or Biblical Studies **3 hours**  
 Area I-3c    World Language **3 hours**  
 Area I-2a    Math (if required) **0-3 hours**  
 Area I-4    Natural Science **3 hours**  
 Area P-2    Health Science **2-3 hours**  
 Electives **1-5 hours**

**TOTAL 16**

##### 2nd Semester

Area I-2c    Computational Skills **2 hours**  
 Area I-3c    World Language **3 hours**

Area I-5	Economics and Business Basics	<b>3 hours</b>
Area S-3	Aesthetic and Skills Development	<b>3 hours</b>
Area P-1b	Physical Activity	<b>1 hour</b>
Electives		<b>4 hours</b>
<b>TOTAL</b>		<b>16</b>

*NOTE(S) See General Degree and General Education requirements. Note especially requirements for make-up of any admissions deficiencies.*

## GENERAL STUDIES, A.S.

**Major:** The completion of the General Education requirements for the Bachelor of Science degree with the following exception: Six hours instead of 12 will be required for Area R, Religion. A minimum total of 64 semester hours with a cumulative minimum grade point average of 2.00 is required. Students who plan to eventually complete a bachelor's degree should include some upper division credit and a "W" (writing emphasis) course in the second semester of their second year.

### Typical Sequence of Courses for A.S. General Studies

#### YEAR 1

##### 1st Semester

ENGL 101	College Composition I (I-1a)	<b>3 hours</b>
NOND 101	Southern Connections (S-1)	<b>1 hour</b>
PEAC 125	Fitness for Collegiate Life (P-1a)	<b>1 hour</b>
Area I-3a	History of Civilization	<b>3 hours</b>
Area I-4	Natural Science	<b>3 hours</b>
Electives		<b>2 hours</b>
RELB 125	Life and Teachings of Jesus (R-1)	<b>3 hours</b>
or RELT 177	Christian Spirituality (R-1)	<b>3 hours</b>
<b>TOTAL</b>		<b>16 HOURS</b>

##### 2nd Semester

COMM 135	Introduction to Public Speaking (I-1c)	<b>3 hours</b>
CPT 100	Computer Concepts (I-2b)	<b>1 hour</b>
ENGL 102	College Composition 2 (I-1b)	<b>3 hours</b>
Area S-2	Personal and/or Social Adjustment	<b>3 hours</b>
Area S-3	Aesthetic and Skills Development	<b>3 hours</b>
Electives		<b>3 hours</b>
<b>TOTAL</b>		<b>16 HOURS</b>

#### YEAR 2

##### 1st Semester

Area R2 or R3	SDA Teachings or Biblical Studies	<b>3 hours</b>
Area I-2a	Math (if required)	<b>0-3 hours</b>
Area I-3a, I-3b or I-3c	History of Civ, Society and Culture or World Languages	<b>3 hours</b>
Area I-4	Natural Science	<b>3 hours</b>
Area P-2	Health Science	<b>2-3 hours</b>
Electives		<b>1-5 hours</b>
<b>TOTAL</b>		<b>16 HOURS</b>

**2nd Semester**

Area I-2c	Computational Skills <b>2 hours</b>
Area I-5	Economics and Business Basics <b>3 hours</b>
Area P-1b	Physical Activity <b>1 hour</b>
Area S-3	Aesthetic Skills and Development <b>3 hours</b>
Electives <b>7 hours</b>	
<b>TOTAL 16 HOURS</b>	

*NOTE(S): See General Degree and General Education requirements. Note especially requirements for make-up of any admissions deficiencies.*

**Non-Degree Preprofessional Programs**

Southern Adventist University offers preprofessional and pre-technical programs in a wide variety of fields that may prepare students for admission to professional schools or to enter technical careers. The following nondegree preprofessional curricula are offered at Southern Adventist University:

Anesthesia	Osteopathic Medicine
Dentistry	Pharmacy
Law	Podiatric Medicine
Medicine	Pre-Physician Assistant
Optometry	Veterinary Medicine

Detailed requirements for non-degree preprofessional curricula are outlined by department or in the section on “Non-degree Preprofessional Programs”.

Associate degrees in Allied Health are available to students who fulfill pre-professional requirements for programs designated in the Allied Health section. Because pre-professional and technical admission requirements may vary from one professional school to another, students should become acquainted with the admission requirements of their chosen school.

Preprofessional and pretechnical curricula are offered in a wide variety of fields. Below are listed the curricula most frequently chosen. If other pre-professional programs are desired, faculty advisers are prepared to assist the student in working out a satisfactory sequence of courses needed to meet the admission requirements of the chosen professional school.

**ANESTHESIA (CRNA)**

**Adviser:** Barbara James

Registered nurses who are experienced and comfortable working in critical care areas may become registered nurse anesthetists. Graduation from an approved baccalaureate program of nursing and a valid nursing license is required. Additional requirements may be determined by consulting the School of Nursing.

## DENTISTRY

**Adviser:** Keith Snyder

Most dental schools now require a bachelor's degree as a prerequisite for entering. Students may major in the field of their interest, but those weak in ACT/SAT scores should seriously consider majoring in a science area. Although a thorough background in the biological and physical sciences is essential to the study of dentistry, a broad educational background in the humanities is desirable. Upper division biology courses are recommended to prepare for the Dental Admissions Test and for the first two years of basic science courses in dental school.

Application to dental school should be made one year previous to the year for which admission is desired. Successful applicants should have a minimum GPA of 3.30 in both science and non-science courses as well as satisfactory performance on the Dental Admissions Test. Early application is encouraged. Information regarding the Dental Admission Testing Program may be obtained from the American Dental Association, 211 East Chicago Avenue, Chicago, IL 60611 or on the web at [www.ada.org](http://www.ada.org).

The following courses must be included to meet the minimum requirements for admission to Loma Linda University School of Dentistry

*\*Waived if equivalent math was taken in high school with minimum grade of B.*

BIOL 151	General Biology (I-4a) <b>4 hours</b>
BIOL 152	General Biology (I-4a) <b>4 hours</b>
CHEM 151	General Chemistry (I-4b) <b>4 hours</b>
CHEM 152	General Chemistry (I-4b) <b>4 hours</b>
CHEM 311	Organic Chemistry <b>4 hours</b>
CHEM 312	Organic Chemistry <b>4 hours</b>
CHEM 361	Biochemistry I <b>4 hours</b>
ENGL 101	College Composition I (I-1a) <b>3 hours</b>
ENGL 102	College Composition 2 (I-1b) <b>3 hours</b>
MATH 120	Precalculus Algebra (I-2a) <b>3 hours</b> *
MATH 121	Precalculus Trigonometry (I-2a) <b>2 hours</b> *
PHYS 211	General Physics I (I-4d) <b>3 hours</b>
PHYS 212	General Physics II (I-4d) <b>3 hours</b>
PHYS 213	General Physics Laboratory I <b>1 hour</b>
PHYS 214	General Physics Laboratory II <b>1 hour</b>

### Strongly recommended courses

BIOL 416	Human Anatomy <b>3 hours</b>
BIOL 418	Animal Physiology <b>3 hours</b>

### Recommended courses

Business classes such as Accounting/Management, and a hands-on class such as Ceramics/Sculpture.

## LAW

**Advisers:** Ben McArthur, Cliff Olson

Students interested in the study of law as a profession should become acquainted with the entrance requirements of various law schools. This will make possible the planning of a preprofessional program which will qualify the student for admission to several schools.

It is a general requirement that students complete a bachelor's degree before entering law school. Although no particular major is required, five fields should be especially considered by the student serious about law school. These are: business, history, English, journalism, and behavioral science. Certain courses recommended by all law schools include American history, freshman composition, principles of accounting, American government, principles of economics, English history, business law, and mathematics. Pre-law students should concentrate on developing their analytical, verbal, and writing skills.

Southern Adventist University offers a Political Economy minor, which combines an interdisciplinary selection of courses helpful for law school preparation.

Information about preparation for law school may be obtained from the Section of Legal Education and Admissions to the Bar, American Bar Association, 1155 East 60th Street, Chicago, Illinois 60637. For information about the Law School Admissions Test, see the pre-law adviser.

### Recommended courses for Law School

ECON 224	Principles of Macroeconomics (I-5) <b>3 hours</b>
ENGL 313	Expository Writing (S-3c) (W) <b>3 hours</b>
PLSC 254	American National and State Government (I-3b) <b>3 hours</b>
PLSC 471	Classics of Western Thought I (W) <b>3 hours</b>
or PLSC 472	Classics of Western Thought II (W) <b>3 hours</b>

### Plus six hours of electives selected from the following courses

ACCT 221	Principles of Accounting I (I-5) <b>3 hours</b>
BUAD 339	Business Law <b>3 hours</b>
BUAD 358	Ethical, Social, and Legal Environment of Business (W) <b>3 hours</b>
ECON 225	Principles of Microeconomics <b>3 hours</b>
HIST 357	Modern America (I-3a) (W) <b>3 hours</b>
HIST 374	History of England (I-3a) (W) <b>3 hours</b>
HMNT 210	Introduction to Philosophy (I-3a) <b>3 hours</b>
JOUR 427	Mass Media Law and Ethics <b>3 hours</b>
PLSC 357	Modern America (W) <b>3 hours</b>
PLSC 291	Political Science Practicum <b>3-6 hours</b>
PLSC 491	Political Science Practicum <b>3-6 hours</b>

## MEDICINE

**Advisers:** Joyce Azevedo, Loren Barnhurst, Ann Foster, Lucinda Hill, Rick Norskov, Rhonda Scott, Keith Snyder, Ben Thornton, Tim Trott

Secondary school students who look forward to a career in medicine are advised to include mathematics and science courses during their high school years.

Most applicants complete a Bachelor's Degree prior to entrance into medical school. Exceptional students may be eligible to apply after completion of a minimum of 85 semester hours. Applicants for admission to the Loma Linda University School of Medicine should maintain a grade point average of at least 3.50 in both science and non-science courses.

Applicants are also encouraged to obtain experience where they are directly involved in the providing of health care. The Biology Department collaborates with Chattanooga's Erlanger Medical Center in a premedical preceptorship program.

This program provides the opportunity for upper division pre-medical students to shadow resident physicians in the hospital for up to 24-hour periods.

The applicant is required to have taken the Medical College Admission Test (MCAT) prior to consideration by the admissions committee. For entrance into medical school following graduation, the student should plan on taking the MCAT by September preceding the senior year. All of the below required science courses should be completed by this time to insure maximum performance on the MCAT exam. To register for specific dates, see the <http://aamc.org/mcat> website. Early submission of application is encouraged.

Once or twice each year representatives from LLU and other schools of medicine visit the campus to interview prospective students. Premedical students are encouraged to make appointments to speak with them.

Most medical schools are members of the American Medical College Application Service (AMCAS). Applications must be submitted through this service. The AMCAS application may be obtained from the Counseling and Testing Office, directly from AMCAS, or filled out electronically on the web. Applications are available between May 1 and November 1 for entry into medical school the following year (<http://aamc.org>). Early submission (application) is encouraged.

The following courses without an asterisk must be included in the applicant's academic program

Medical schools generally do not accept CLEP or AP credits for these basic science courses. Classes with (\*) asterisks are recommended. Please check the specific requirements for individual medical schools.

*\*Waived if equivalent math was taken in high school with minimum grade of B.*

BIOL 151	General Biology (I-4a) <b>4 hours</b>
BIOL 152	General Biology (I-4a) <b>4 hours</b>
CHEM 151	General Chemistry (I-4b) <b>4 hours</b>
CHEM 152	General Chemistry (I-4b) <b>4 hours</b>
CHEM 311	Organic Chemistry <b>4 hours</b>
CHEM 312	Organic Chemistry <b>4 hours</b>
CHEM 361	Biochemistry I <b>4 hours</b>
ENGL 101	College Composition I (I-1a) <b>3 hours</b>
ENGL 102	College Composition 2 (I-1b) <b>3 hours</b>
MATH 120	Precalculus Algebra (I-2a) <b>3 hours</b> *
MATH 121	Precalculus Trigonometry (I-2a) <b>2 hours</b> *
PHYS 211	General Physics I (I-4d) <b>3 hours</b>
PHYS 212	General Physics II (I-4d) <b>3 hours</b>
PHYS 213	General Physics Laboratory I <b>1 hour</b>
PHYS 214	General Physics Laboratory II <b>1 hour</b>
PSYC 122	General Psychology (S-2) <b>3 hours</b>

### **Strongly recommended courses**

*NOTE: It is recommended that one of the first three courses be taken before taking the MCAT.*

BIOL 412	Cell and Molecular Biology <b>4 hours</b>
BIOL 418	Animal Physiology <b>3 hours</b>
BIOL 313	Developmental Biology <b>3 hours</b>
BIOL 417	Animal Histology <b>3 hours</b>

BIOL 416	Human Anatomy <b>3 hours</b>
MATH 215	Statistics (I-2a) <b>3 hours</b>

**Recommended courses**

BIOL 329	General Microbiology <b>3 hours</b>
BIOL 340	Immunology <b>3 hours</b>
SOCI 125	Introduction to Sociology (S-2) <b>3 hours</b>

**OPTOMETRY**

**Adviser:** Ken Caviness

The admission requirements to colleges of optometry vary, so the student should follow the catalog from the school of his/her choice. (See the Association of Schools and Colleges of Optometry's website for a list of accredited optometry programs— <http://opted.org>). However, all place emphasis on biology, chemistry, mathematics and physics. Additional courses in the areas of fine arts, language, literature, and the social sciences are usually necessary.

A minimum of two years of preoptometric study is required. However, additional study increases the prospects of acceptance into professional training.

Direct individual inquiries are welcomed by the American Optometric Association (<http://www.aoa.org>).

Following is a list of preoptometry courses required by most schools

BIOL 151	General Biology (I-4a) <b>4 hours</b>
BIOL 152	General Biology (I-4a) <b>4 hours</b>
BIOL 329	General Microbiology <b>3 hours</b>
BIOL 416	Human Anatomy <b>3 hours</b>
BIOL 418	Animal Physiology <b>3 hours</b>
CHEM 151	General Chemistry (I-4b) <b>4 hours</b>
CHEM 152	General Chemistry (I-4b) <b>4 hours</b>
CHEM 311	Organic Chemistry <b>4 hours</b>
ENGL 101	College Composition I (I-1a) <b>3 hours</b>
ENGL 102	College Composition 2 (I-1b) <b>3 hours</b>
MATH 120	Precalculus Algebra (I-2a) <b>3 hours</b>
MATH 121	Precalculus Trigonometry (I-2a) <b>2 hours</b>
MATH 191	Calculus I <b>4 hours</b>
PHYS 211	General Physics I (I-4d) <b>3 hours</b>
PHYS 212	General Physics II (I-4d) <b>3 hours</b>
PHYS 213	General Physics Laboratory I <b>1 hour</b>
PHYS 214	General Physics Laboratory II <b>1 hour</b>
PSYC 122	General Psychology (S-2) <b>3 hours</b>

**OSTEOPATHIC MEDICINE**

**Advisers:** Joyce Azevedo, Ann Foster, Lucinda Hill, Rick Norskov, Keith Snyder, Ben Thornton

An alternative to allopathic medical schools, which grant the M.D. degree, are the osteopathic medical schools whose graduates receive the D.O. degree.

Many Seventh-day Adventists have attended the University of Health



Sciences, College of Osteopathic Medicine in Kansas City, Missouri, one of nineteen osteopathic medical colleges in this country.

Requirements for admission are similar to those for allopathic medical schools such as Loma Linda University School of Medicine. We also have several students at DeBusk College of Osteopathic Medicine in Tennessee. Students apply to schools of osteopathic medicine through the American Association of Colleges of Osteopathic Medicine Application Service (AACOMAS) (<https://aacomas.aacom.org/>).

For a reasonable chance of acceptance, a minimum grade point average of 3.30 should be maintained in both science and non-science subjects.

## PHARMACY

**Adviser:** Bruce Schilling

Pharmacy is an excellent, lucrative career with an expected shortage of qualified pharmacists as the general population ages. Although this is great for a future career in pharmacy, it has led to much more competition for the available positions in pharmacy schools. The average GPA for accepted students is trending upward toward 3.50. In addition, for those schools that require it, a satisfactory score must be achieved on the Pharmacy College Admission Test (PCAT).

Those students interested in a career in the field of pharmacy may take their prepharmacy classes at Southern Adventist University before applying to a school of pharmacy. The doctor of pharmacy degree (PharmD) is a four year program. Prepharmacy requirements take from two to four years to complete depending on the pharmacy school and the student, and many pharmacy schools are now giving admissions preference to students with a bachelor's degree.

Admission requirements to colleges of pharmacy vary from school to school so the student should consult the catalog or web page of the school of his/her choice for specific course requirements. The American Association of Colleges of Pharmacy maintains links to all schools of pharmacy at its web page <http://www.aacp.org>. Since a lot of pharmacy involves the study of the action of drugs in the body, students need to be especially familiar with organic chemistry, biochemistry, and physiology and so all schools place a high emphasis on chemistry and biology.

Loma Linda University School of Pharmacy

Loma Linda University is the only Seventh-day Adventist school with a program in Pharmacy. Loma Linda indicates that preference will be given to students who have completed a baccalaureate degree and specifically recommend a degree in chemistry, biology, physics, or a related scientific field.

Minimum admission requirements for the Loma Linda University School of Pharmacy include the following courses:

BIOL 101	Anatomy and Physiology (I-4a) <b>4 hours</b>
BIOL 151	General Biology (I-4a) <b>4 hours</b>
BIOL 152	General Biology (I-4a) <b>4 hours</b>
BIOL 329	General Microbiology <b>3 hours</b>

CHEM 151	General Chemistry (I-4b) <b>4 hours</b>
CHEM 152	General Chemistry (I-4b) <b>4 hours</b>
CHEM 311	Organic Chemistry <b>4 hours</b>
CHEM 312	Organic Chemistry <b>4 hours</b>
CHEM 361	Biochemistry I <b>4 hours</b>
COMM 135	Introduction to Public Speaking (I-1c) <b>3 hours</b>
ENGL 101	College Composition I (I-1a) <b>3 hours</b>
ENGL 102	College Composition 2 (I-1b) <b>3 hours</b>
MATH 191	Calculus I <b>4 hours</b>
PHYS 211	General Physics I (I-4d) <b>3 hours</b>
PHYS 212	General Physics II (I-4d) <b>3 hours</b>
PHYS 213	General Physics Laboratory I <b>1 hour</b>
PHYS 214	General Physics Laboratory II <b>1 hour</b>
PSYC 122	General Psychology (S-2) <b>3 hours</b>
ECON 224	Principles of Macroeconomics (I-5) <b>3 hours</b>
	or ECON 225 Principles of Microeconomics <b>3 hours</b>

Additional recommended science classes include BIOL 102, BIOL 340, BIOL 412, BIOL 417, and BIOL 418. BIOL 416 may be substituted for BIOL 101. PHYS 221, PHYS 222, PHYS 223, and PHYS 224 may be substituted for PHYS 211, PHYS 212, PHYS 213, and PHYS 214. Other general education course requirements are covered if the student graduates with a degree from Southern Adventist University. For those applying without a 4-year degree, consult Loma Linda for the general education courses that must be completed.

## PODIATRIC MEDICINE

**Adviser:** Keith Snyder

An alternative to allopathic (M.D.) and osteopathic (D.O.) medical schools are the podiatric medical schools whose graduates receive the D.P.M. degree. Doctors of podiatric medicine are physicians trained in the medical and surgical treatment of the human foot and ankle.

To gain acceptance to a school of Podiatric Medicine, a bachelor's degree is highly desirable. Preprofessional course work, with a minimum of 90 semester hours, is required of all students. Applicants are required to take the Medical College Admission Test (MCAT). In addition, most D.P.M. schools require the same prerequisite science classes as the M.D. and D.O. schools.

There are seven colleges of podiatric medicine, six of which participate in the American Association of Colleges of Podiatric Medicine Application Service (AACPMAS). The six schools in the AACPMAS are located in California, Florida, Illinois, Iowa, Ohio, and Pennsylvania. An application packet can be obtained thru the website <http://www.e-aacpmas.org>.

## PRE-PHYSICIAN ASSISTANT

**Adviser:** Randy Bishop

Physician assistants are trained to perform many of the essential tasks involved in patient care. They take medical histories, perform physical evaluations, order laboratory tests, make preliminary diagnoses, prescribe appropriate treatments, and recommend medications and drug therapies. They also treat minor problems such as lacerations, abrasions, and burns. Physician assistants work in a variety of practice settings and specialty areas. The most

important practice setting is in a physician's office. They also work at hospitals and clinics. Specialties using PA's are family practice, internal medicine, general and thoracic surgery, emergency medicine, pediatrics, and various medical sub-specialties.

The entrance requirements to physician assistant clinical programs vary considerably from school to school. Prerequisite course requirements vary, but generally require a science undergraduate baccalaureate degree. Prior patient care requirements also range from being recommended through two years of direct clinical work experience.

Seventh-day Adventist programs offering the Physician Assistant degree are:

Kettering College of Medical Arts—<http://www.kcma.edu>

Loma Linda University—<http://www.llu.edu>

Union College— <http://www.ucollege.edu/pa>

Students may obtain information on these programs by contacting the schools directly, or from the Southern Adventist University pre-PA adviser. A complete list of PA programs can be found on the American Academy of Physician Assistants website at <http://aapa.org>. Southern Adventist University can structure a course of study to meet the requirements of any clinical program to which a student wishes to apply. Students are advised to begin early in their academic studies to gather information on prospective PA schools and the prerequisite course work required.

## VETERINARY MEDICINE

**Adviser:** Joyce Azevedo

Competition for admission to colleges of veterinary medicine is keen. Consequently, most successful applicants have completed a degree rather than the minimum requirements listed below. It should also be noted that it is often more difficult to be accepted in a veterinary institution other than the school in the state where the applicant resides.

The applicant must make a satisfactory score on the Veterinary College Admission Test (VCAT) or Graduate Record Exam (GRE) in addition to meeting grade point average (often above 3.50) and personal qualifications for admission. Professional training involves four years of veterinary school beyond college.

Admission requirements will vary among veterinary schools; therefore, it is recommended that the pre-veterinary student work closely with his/her adviser in assuring that the specific requirements for the schools of his/her choice are met.

Information on veterinary schools and applications, through the Association of American Veterinary Medical Colleges, are available online <http://www.aavmc.org>.

Minimum admission requirements to the University of Tennessee College of Veterinary Medicine in Knoxville are:

BIOL 151	General Biology (I-4a) <b>4 hours</b>
BIOL 152	General Biology (I-4a) <b>4 hours</b>

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BIOL 311	Genetics <b>4 hours</b>
BIOL 412	Cell and Molecular Biology <b>4 hours</b>
CHEM 151	General Chemistry (I-4b) <b>4 hours</b>
CHEM 152	General Chemistry (I-4b) <b>4 hours</b>
CHEM 311	Organic Chemistry <b>4 hours</b>
CHEM 312	Organic Chemistry <b>4 hours</b>
CHEM 361	Biochemistry I <b>4 hours</b>
ENGL 101	College Composition I (I-1a) <b>3 hours</b>
ENGL 102	College Composition 2 (I-1b) <b>3 hours</b>
PHYS 211	General Physics I (I-4d) <b>3 hours</b>
PHYS 212	General Physics II (I-4d) <b>3 hours</b>
PHYS 213	General Physics Laboratory I <b>1 hour</b>
PHYS 214	General Physics Laboratory II <b>1 hour</b>

**Additional requirements include:**

Humanities and Social Sciences **18 hours**

# Course Descriptions

## Animation

### **AART 104 - Principles of Animation I | 3 hours**

This course is an introduction to the mechanics of animation and the elementary components of motion. Hand-drawn techniques such as inbetweening and simple movements will be used to give the student experience in this medium and to equip them with skills to be applied in computer animation. Lab fee 6 will be assessed for this course.

### **AART 106 - Principles of Animation II | 3 hours**

Prerequisite(s): AART 104—This course is designed to broaden the student's experience of walk and run cycles through the incorporation of personality and attitude into their characters. Lab fee 6 will be assessed for this course.

### **AART 108 - Introduction to 3D | 3 hours**

Prerequisite(s): ARTG 115—This course will cover the basics of creating and manipulating assets in the 3D computer environment. The course is an introduction to basic modeling, rigging, animating, texturing, lighting, and rendering. It is designed to prepare students for further exposure to 3D work in Animation and Interactive Media. Lab fee 12 will be assessed for this course.

### **AART 212 - Storyboarding and Previsualization | 3 hours**

Prerequisite(s): ART 104, Admission to Animation or Film Program—This course is constructed to give animation and film students the ability to effectively communicate ideas in a preproduction setting. Presentation quality and clarity are emphasized. The course will also cover traditional and experimental plot and structure issues. Lab fee 10 will be assessed for this course.

### **AART 216 - Character Animation I | 3 hours**

Prerequisite(s): AART 106, AART 108; Admission to Animation Program—This course focuses on the fundamentals of animation through the exploration of body attitudes, classic actions, and facial expressions. The course will give students a better sense of what is needed to communicate thought and emotion. Lab fee 12 will be assessed for this course.

### **AART 218 - Character Animation II | 3 hours**

Prerequisite(s): AART 216; Admission to Animation Program—This course furthers the animation student's skills with the addition of dialog based performances. The course seeks to combine the principles of facial expression and dialogue timing to create believable characters. Lab fee 12 will be assessed for this course.

### **AART 236 - Visual Development | 3 hours**

Prerequisite(s): ART 105 or permission of instructor—This course develops the creative process through the designing of characters, environments, and props for animation or film production. Students will learn to research and observe as well as explore various approaches in visual concept development using traditional and digital tools.

### **AART 242 - Character Design | 3 hours**

Prerequisite(s): AART 106, AART 108; ART 227; Admission to Animation Program—This course teaches students the process of designing characters through the development of personas, character packs, modeling, texturing, and rigging. Character development includes extensive research, drawing matrices of character elements, settings, and accessories. Special emphasis will be placed on modeling for effective body and facial rigging for animation. Lab fee 12 will be assessed for this course.

### **AART 244 - Solid Modeling | 3 hours**

Prerequisite(s): AART 108—This course deals with product modeling which describes most mechanical or generally nondeformable objects. This course will cover all surface types, their uses, and a complete understanding of modeling and the relationship between geometry, shading, and lighting technologies. Lab fee 12 will be assessed for this course.

### **AART 246 - Environment Design | 3 hours**

Prerequisite(s): AART 108, AART 236—This course focuses on the tools required to create production ready environments. Students will explore the process of environmental design and develop techniques to build original environments in CG. Topics include lighting and rendering methods, texture creation, matte painting, and shader creation. Lab fee 12 will be assessed for this course.

**AART 265 - Topics in Animation | 1-3 hours**

This course is designed to be an access point to a broad variety of subjects in animation. Lab fee 12 will be assessed for this course. May be repeated with permission.

**AART 292 - Internship in Animation | 1-3 hours**

Prerequisite(s): Acceptance by a professional studio—Professional work experience in an animation production environment for a minimum of 100 clock hours per credit hour with supervisor evaluation. This experience can come from customary employment in the field or significant non-coursework projects in the visual arts. Must be approved by a faculty adviser in the program. Students will maintain a log sheet and samples of work. May be repeated.

**AART 295 - Directed Study | 1-3 hours**

This course involves individual or group work adjusted to meet particular needs in Animation. Content is chosen by the faculty adviser and the student. Lab fee 12 will be assessed for this course. May be repeated.

**AART 316 - Collaborative Studio | 3 hours**

Prerequisite(s): AART 216; Admission to Animation Program—In this course students work together as a team to create a finished animation production. Students are encouraged to work in roles that will help them generate portfolio material in line with their career goals. Issues in effective project management, personal discipline, and working together are explored. Lab fee 12 will be assessed for this course. (Fall)

**AART 318 - Collaborative Studio | 3 hours**

Prerequisite(s): AART 216; Admission to Animation Program—In this course students work together as a team to create a finished animation production. Students are encouraged to work in roles that will help them generate portfolio material in line with their career goals. Issues in effective project management, personal discipline, and working together are explored. Lab fee 12 will be assessed for this course. (Winter)

**AART 322 - Motion Design (SERV-2) | 3 hours**

Prerequisite(s): ARTG 115—In this course, graphic design, interactive media, animation, and film students will explore elements of moving compositions by incorporating the fundamentals of design and animation principles and techniques. The course covers how motion design is used by broadcast, film, interactive, and fine art professionals. Lab fee 12 will be assessed for this course.

**AART 356 - Effects Animation | 3 hours**

Prerequisite(s): AART 108, CPTR 124 or ARTI 124; Admission to Animation Program—Procedural animation for effects focuses on creating and rendering dynamic non-character movements such as cloth, hair, particles systems, and fluid simulations. This course also covers concepts in node-based shader networks and introductory embedded scripting. Lab fee 12 will be assessed for this course.

**AART 366 - Compositing | 3 hours**

Node-based compositing for live action and graphic filmmaking enhances source material via time based image manipulation. Advanced concepts in tracking, retouching, color correction, camera stabilization, automated and manual matting, layering, and effects generation are addressed. Lab fee 12 will be assessed for this course.

**AART 426 - Senior Studio | 3 hours**

Prerequisite(s): AART 316, AART 318—In this course final year students will have the opportunity to produce a significant project needed to complete their portfolio. Class time features structured labs, regular presentations, professor/student meetings, and group discussions concerning each students work. Lab fee 12 will be assessed for this course.

**AART 429 - Senior Studio | 4 hours**

Prerequisite(s): AART 316, AART 318. —In this course final year students will have the opportunity to produce a significant project needed to complete their portfolio. Class time features structured labs, regular presentations, professor/student meetings, and group discussions concerning each students work. Lab fee 12 will be assessed for this course.

**AART 465 - Topics in Animation | 1-3 hours**

See AART 265 for course description. Lab fee 12 will be assessed for this course.

**AART 492 - Internship in Animation | 1-3 hours**

Prerequisite(s): Acceptance by a professional studio—See AART 292 for course description.

**AART 495 - Directed Study | 1-3 hours**

See AART 295 for course description. Lab fee 12 will be assessed for this course.

## Accounting

### ACCT 103 - College Accounting (I-5) | 3 hours

This course covers the fundamental accounting and financial reporting processes for small businesses, including professional service firms, merchandising firms and service organizations. This course is designed for non-business majors and does not apply for credit to a BBA or BS business major. (Fall)

### ACCT 221 - Principles of Accounting I (I-5) | 3 hours

Principles of Accounting I focuses on how accounting events affect financial statements. Topics include accruals/deferrals, receivables, inventory, long-term operational assets, long-term liabilities, stockholders' equity, recording procedures, and financial statement preparation. This course should be taken in the freshman year.

### ACCT 222 - Principles of Accounting II | 3 hours

Prerequisite(s): A final grade of C or higher in ACCT 221—This course continues the study of financial accounting and introduces managerial accounting. Topics may include accounting for partnerships and corporations, the cash flow statement, financial statement analysis, and various managerial accounting topics such as job order and process cost systems, cost behavior, cost-volume-profit analysis, and budgeting. This course should be taken in the freshman year.

### ACCT 265 - Topics in Accounting | 1-3 hours

Prerequisite(s): Permission of the instructor—Selected topics designed to meet the needs or interests of students in specialty areas of business and management. This course may be repeated for credit with permission.

### ACCT 295 - Directed Study | 1-3 hours

Prerequisite(s): Approval of the Dean of the School—A directed study involves individualized research into a selected topic chosen by the faculty adviser and the student.

### ACCT 311 - Intermediate Accounting I | 4 hours

Prerequisite(s): ACCT 221—An in-depth course in financial accounting. Topics include the accounting conceptual framework, accounting for cash, receivables, inventories, plant assets, intangibles, and current and long-term liabilities and accounting for investments. Lab fee 2 will be assessed for this course. (Fall)

### ACCT 312 - Intermediate Accounting II | 4 hours

Prerequisite(s): ACCT 311—This course is a continuation of ACCT 311. Topics include; accounting for contributed capital, retained earnings investments, income taxes, pensions, and OPEB's, leases, reporting earnings per share, the Statement of Cash Flows, financial statement disclosure requirements, and financial statement analysis. Lab fee 2 will be assessed for this course. (Winter)

### ACCT 316 - Governmental and Fund Accounting | 3 hours

Prerequisite(s): ACCT 222—Accounting theory and practice are applied to governmental units and non-profit entities, including universities and hospitals. The classification and use of funds, fiscal procedures, budgetary controls, and financial reporting are covered. (Fall, even years)

### ACCT 321 - Managerial Accounting | 3 hours

Prerequisite(s): ACCT 222; BUAD 217—This course is a study of selected quantitative management decision-making tools. Topics may include cost behavior, cost-volume-profit analysis, budgeting, pricing decisions, relevant costs, out-sourcing decisions, the effect of constraints, capital budgeting, and performance measurement.

### ACCT 322 - Cost Accounting | 3 hours

Prerequisite(s): ACCT 222—An in-depth study of the more technical aspects of cost accounting systems, including job cost and process cost allocations, joint product and by-product accounting in addition to actual, standard, and direct cost methods. Quantitative techniques are covered and may include decision-making under uncertainty, inventory control, cost behavior and regression analysis, and variance investigation. (Fall, odd years)

### ACCT 443 - Accounting Systems | 3 hours

Prerequisite(s): ACCT 222—A study of accounting information systems, internal control, reporting systems, computer-based systems and systems development will be covered. (Fall, odd years)

### ACCT 450 - Advanced Accounting | 3 hours

Prerequisite(s): ACCT 312—This course is cross-listed with ACCT 550 in the MBA and MFM programs. A student may receive credit for this course for only one program—This course is an in-depth study of selected accounting topics such as consolidated financial statements, segment reporting, business firms in financial distress, foreign currency translations exchange, and partnerships. (Winter)

**ACCT 452 - Auditing | 3 hours**

Prerequisite(s): ACCT 312—This course is cross-listed with ACCT 552 in the MBA and MFS programs. A student may receive credit for this course from only one program—Basic auditing theory and practice with emphasis on the application of current auditing standards and the preparation of working papers and audit reports are addressed. Topics include generally accepted auditing standards, ethics, audit planning procedures, types of audit evidence, internal controls, and sampling methods. Provisions of the Sarbanes-Oxley Act are also discussed. (Winter)

**ACCT 456 - Federal Taxation | 3 hours**

Prerequisite(s): ACCT 222—This course is cross-listed with ACCT 556 in the MBA and MFS programs. A student may receive credit for this course from only one program—This course is a study of the Federal tax system. The primary emphasis is the Federal income tax as it applies to individuals. A study of other selected Federal taxes and the taxation of other entities is included. (Fall)

**ACCT 457 - Advanced Federal Taxation | 3 hours**

Prerequisite(s): ACCT 456—This course is cross-listed with ACCT 557 in the MBA and MFS programs. A student may receive credit for this course from only one program—This course is a continued study of the Federal tax system. The primary emphasis is the Federal income tax as it applies to for-profit and not-for-profit entities other than individuals. A study of other selected taxes is included. (Winter)

**ACCT 465 - Topics in Accounting | 1-3 hours**

Prerequisite(s): Permission of the instructor—See ACCT 265 for course description.

**ACCT 491 - Accounting Practicum | 1-3 hours**

Prerequisite(s): Junior or senior status and permission of a supervising professor. (Registration for this course and an agreement with a supervising professor must be completed prior to beginning the work experience)—A practicum consists of supervised volunteer/work experience in related fields of accounting on a part-time basis. The work may be done at various job sites. A minimum of 50 clock hours of work experience is required for each semester hour of credit. (Note: A maximum of 3 credit hours of practicum and/or internship may apply as an elective in the major.)

**ACCT 492 - Accounting Internship | 1-3 hours**

Prerequisite(s): Junior or senior status and permission of a supervising professor. (Registration for this course and an agreement with a supervising professor must be completed prior to beginning the work experience)—An internship consists of on-the-job experience working under supervision in an accounting office on a full-time basis. All hours must be completed on one job site. A minimum of 100 clock hours of work experience is required for each semester hour of credit. (Note: A maximum of 3 credit hours of practicum and/or internship may apply as an elective in the major.)

**ACCT 495 - Directed Study | 1-3 hours**

Prerequisite(s): Approval of the Dean of the School—See ACCT 295 for course description.

**ACCT 497 - Accounting Research | 3 hours**

Prerequisite(s): ACCT 450; BUAD 221 or MATH 215—This course permits students to apply principles of research and statistical analysis of data leading to the completion of a research project.

**Allied Health****ALHT 111 - Introduction to the Health Professions | 1 hour**

A survey course that heightens awareness of the options, expectations, and realities of the health professions. Students gain an overview of professional health careers through lectures, guest speakers, observation, and research. (Winter)

**ALHT 225 - Introduction to Clinical Laboratory Science | 2 hours**

This course is designed to acquaint prospective clinical laboratory scientists with the profession. The history and standards of medical technology and employment opportunities will be surveyed. Elementary clinical laboratory procedures will be taught and laboratory tours will be conducted.

**ALHT 265 - Topics in Allied Health | 2 hours**

Formal course work designed to meet the needs and interests of students in specialty areas of the Allied Health professions not covered in regular courses.

**Adventure Activity****ADAC 141 - Fly-Fishing (P-1b) | 1 hour**

Prerequisite(s): PEAC 125—This course is designed to teach the fundamentals of fly-fishing. The course will include but not be limited to: casting, rods & reels, knots, lines, leaders, flies, insectology, fish, equipment, wilderness ecology and where to go. This is a great family oriented, lifetime activity that will



be about catch and release in the great out-of-doors. Several outings will be part of this course. Minimal fees may be charged for transportation. Lab fee 8 will be assessed for this course. Offered on a rotating basis.

**ADAC 142 - Canoeing (P-1b) | 1 hour**

Prerequisite(s): PEAC 125—This is a leadership skills course in flat and moving water canoeing. Students gain knowledge and skill in the areas of canoe handling, guiding, and packing over the course of a multi-day canoeing expedition over flat and moving water. Students also gain experience in primitive camping techniques and outdoor trip leadership. Leave No Trace methods of wilderness camping are emphasized. May include an American Canoe Association certificate. A multi-day expedition trip will be required over fall or spring break, respectively. Lab fee 13 will be assessed for this course. (Fall or Spring break)

**ADAC 145 - Basic Rock Climbing (P-1b) | 1 hour**

Prerequisite(s): PEAC 125—This course introduces students to the sport of rock climbing and provides the foundation for more advanced climbing courses as well as the ability to lead others climbing. During the class, students will gain an overview of the different types of climbing, rating systems, and equipment. Essential knots, safe belay and rappel techniques, and basic top-rope anchor building skills will be emphasized in this course. Students will also gain exposure to the array of world-class rock climbing and bouldering areas in the Southeast. Crack and face climbing techniques will be taught at a variety of on-and-off campus climbing venues. An off-campus field experience of up to four days may be required. Lab fee 9 will be assessed for this course.

**ADAC 146 - Whitewater Rafting Guide (P-1b) | 1 hour**

Prerequisite(s): PEAC 125—This course provides students with the technical and educational proficiencies necessary to be a safe and professional white water rafting guide. Students will work closely with their instructor and commercial rafting companies to learn skills such as participant safety, reading and understanding the river, and customer service. Course leads to certification as a local river rafting guide. An off-campus field experience of up to four days may be required. Lab fee 8 will be assessed for this course. (Winter)

**ADAC 148 - Horsemanship (P-1b) | 1 hour**

Prerequisite(s): PEAC 125—This course is an introduction to horseback riding, designed for students with no or little previous horse handling experience. Ground instruction teaches proper, safe, and organized horse handling as well as horse care. Mounted instruction focuses on teaching the student a basic riding position and use of aids to effectively and efficiently communicate with the horse at the walk and trot. Lab fee 12 will be assessed for this course.

**ADAC 151 - Scuba Diving (P-1b) | 1 hour**

Prerequisite(s): PEAC 125—This eight-week course leads to open water certification by the National Association of Underwater Instructors (NAUI) upon satisfactory completion of written exam, pool skills and check-out dives. All students at the beginning of the class should be able to comfortably swim combination of strokes for 225 yards with minimal stops for rest. Style and speed are not required. Lab fees and check-out dive expenses will be charged in addition to tuition. Lab fee 16 will be assessed for this course with additional trip expenses charged after the check-out dive. This course cannot be added late.

**ADAC 152 - Caving (P-1b) | 1 hour**

Prerequisite(s): PEAC 125—Overview of sport caving as it applies to the outdoor classroom. Students will receive instruction in specialized equipment usage, cave selection, Leave No Trace ethics, conservation and cave ecology, group management, and participant and personal safety. An off-campus field experience of up to four days may be required. Lab fee 8 will be assessed for this course. (Winter)

**ADAC 155 - Basic Kayaking (P-1b) | 1 hour**

Prerequisite(s): PEAC 125—Students will safely learn the mechanics for flat, moving, and whitewater kayaking. The course will include but not be limited to: basic strokes for propulsion, combat roll techniques, eddy turns, peel outs, upstream and downstream ferrying, surfing, and basic river rescue. Lab fee 6 will be assessed for this course.

**ADAC 156 - Land Navigation (P-1) | 1 hour**

Prerequisite(s): PEAC 125—The use of map and compass is one of the most fundamental of outdoor skills. This class is designed to provide information and practical experience that students will use in their roles as outdoor educators and adventure leaders. Topics include map symbols, Universal Transverse Mercator Coordinate System, latitude and longitude, map scales, declination, resection and map and field bearings, and curriculum development. Students will participate in several map and compass practica as well as a multiday cross country experience. An extended off-campus field experience of up to four days may be required. Lab fee 5 will be assessed for this course. (Fall, alternating years)

**ADAC 160 - Snow Skiing/Boarding (P-1b) | 1 hour**

Prerequisite(s): PEAC 125—A course that is designed to increase your appreciation of snow skiing or boarding as a lifelong pursuit. This course topics will include but not be limited to: equipment, clothing, resort navigation, safety, basic to advanced skills, and physical preparation. A spring break trip to Colorado and additional class activities prior to spring break are required. Lab fee 21 will be assessed for this course.

**ADAC 161 - Whitewater Kayaking (P-1b) | 1 hour**

Prerequisite(s): PEAC 125—Students will learn essential techniques and safety precautions necessary to competently navigate whitewater rivers. The course curriculum will follow the American Canoe Association (ACA) safety standards and teaching model and will include such topics as combat rolling, precise boat control in class I-III rapids, play-boating basics, river reading, and river rescue essentials. In addition, students will learn Leave No Trace river ethics and stewardship. Sound decision making, judgment, risk to kayak on classic Southeastern rivers under the guidance of certified ACA instructors. Successful course completion will lead to an industry recognized Level 3 ACA certification in river safety and rescue and certification in CPR/First Aid. An extended off-campus field experience of up to four days may be required. Lab fee 9 will be assessed for this course.

**ADAC 162 - Wilderness Backpacking (P-1b) | 1 hour**

Prerequisite(s): PEAC 125—This fundamental course provides students with the knowledge and skills necessary to be safe, comfortable, and environmentally responsible while backpacking in a wilderness environment. Sound outdoor leadership principles coupled with Leave No Trace backcountry ethics provide the philosophical and practical foundations of this course. Topics include equipment use and selection, meal planning and preparation, orienteering and land navigation, as well as safety and risk management. An extended off-campus field experience of up to four days may be required. Lab fee 7 will be assessed for this course.

**ADAC 200 - Gym Climbing (P-1b) | 1 hour**

Prerequisite(s): PEAC 125—A fun and exciting introductory course to the sport of Gym Climbing. This course will introduce several climbing skills including: climbing safety, essential knots, belaying techniques, climbing techniques, top roping, and lead climbing. These skills can be used in climbing gyms and is a foundation for outdoor climbing. Lab fee 4 will be assessed for this course.

**ADAC 212 - Backpacking (P-1b) | 1 hour**

Prerequisite(s): PEAC 125—This course is designed to increase your appreciation of hiking and camping as a lifelong pursuit. This course will include but not be limited to: equipment, clothing, menu planning, basic cooking skills, map and compass navigation, on-trail hiking techniques, safety, and minimum impact camping. Lab fee 6 will be assessed for this course. Offered on a rotating basis.

**ADAC 214 - Mountain Biking (P-1b) | 1 hour**

Prerequisite(s): PEAC 125—This course is designed to acquaint students with the basics of mountain biking. The course will include but not be limited to: choosing a mountain bike, bike maintenance, choosing places to ride, safety, and equipment. A variety of rides from easy to challenging will be required. Students must provide their own bike. Minimal transportation fees may be required. Lab fee 7 will be assessed for this course.

**ADAC 215 - CHA Horsemanship Certification (P-1b) | 1 hour**

Prerequisite(s): PEAC 125; ADAC 148 or permission of instructor—For group riding instructors dealing with progressive skill building in all levels of riders, both in the arena and on the trail. Certification may be earned in English and/or Western disciplines; minimum age for assistant certification is sixteen (16), minimum age for instructor certification is eighteen (18). Eight levels of certification may be earned in both English and Western disciplines, ranging from assistant instructor to CHA clinician. Level of certification is the sole discretion of the clinic staff. Previous horse experience is required. Lab fee 18 will be assessed for this course.

**ADAC 248 - Intermediate Horsemanship (P-1b) | 1 hour**

Prerequisite(s): PEAC 125; ADAC 148 or consent of instructor—This course continues to develop the student's basic understanding and application of universal horsemanship skills. Ground instruction includes basic horse health care and maintenance. Mounted instruction in the arena and cross country focuses on correct riding position for the rider and use of aids to effectively communicate with the horse at the trot and canter. Students will also be introduced to beginning jumping techniques. Lab fee 12 will be assessed for this course.

**ADAC 262 - Introduction to Camping (P-1b) | 1 hour**

Prerequisite(s): PEAC 125—A course designed to promote outdoor recreation and provide experience for those interested in preparing for different phases of camp life, outdoor living, and activities. A week-end camping trip with a hike is required. Lab Fee 5 will be assessed for this course.

**ADAC 265 - Topics in Activity | 1-3 hours**

Prerequisite(s): PEAC 125—Topics selected from activities not covered in other courses. This course may be repeated for credit.

**Adventure Theory****ADTH 350 - Adventure Activity Curriculum Applications | 2 hours**

Prerequisite(s): Completion of two ADAC courses—This course is designed to provide students who have a variety of basic adventure skills with the philosophy, leadership skills and the knowledge to teach adventure activities. Content will include but not be limited to the importance of safety, skill development, curriculum development, leadership, environmental awareness, protection, conservation, and the implementation process of adventure programs. Lab fee 8 will be assessed for this course.

**Studio Art****ART 101 - Introduction to Drawing (S-3c) | 3 hours**

A course designed for the general education student or the art student who has had no formal training in drawing or who does not have a portfolio of their art work. This course introduces the beginning student to the basic principles of drawing such as perspective, value, and form. Does not apply to the major. Lab fee 4 will be assessed for this course.

**ART 104 - Drawing I (S-3c) | 3 hours**

A foundations course that introduces students to the process of training their eyes, brains and hands in order to learn to draw perceptually. Students learn to accurately translate three-dimensional objects into two dimensions using line and value. In addition to drawing in class, daily drawing outside of class is required. Lab fee 4 will be assessed for this course.

**ART 105 - Drawing II | 3 hours**

Prerequisite(s): ART 104—In Drawing II students refine observational skills that they began developing in Drawing I. Students will improve accuracy and sensitivity with both line and value. Complex subject matter is addressed through still life and portraiture. Gesture is introduced as the beginning of expression. In addition to drawing in class, daily drawing outside of class is required. Lab fee 4 will be assessed for this course.

**ART 107 - Drawing in Motion | 3 hours**

Prerequisite(s): ART 105—This course will focus on capturing an active figure with drawing. The course is designed to give the animation student skill in gestural drawing that incorporates the use of the line of action, weight, and force. The course includes sequence based studio time with models and observation studies in the field. Lab fee 4 will be assessed for this course.

**ART 109 - 2D Foundations-Plane and Color (S-3c) | 3 hours**

This course introduces the fundamental language of design used to create meaning and function in visual communication on the 2-D plane. Students will investigate concepts and principles of organization in relation to the visual elements, with an emphasis on color theory. Methods of generating and editing the visual plane will be explored through a range of creative processes and media. Visual analysis of historical, contemporary, and personal work will foster vocabulary development, technical skills, and critical awareness. Lab fee 4 will be assessed for this course.

**ART 110 - 3D Foundations-Form and Time | 3 hours**

Prerequisite(s): ART 109—This course builds on the concepts and principles of design presented in 2-D Foundations by applying them to time based and 3-D forms in physical space. Students will focus on the concepts of space, mass, volume, movement, and time as they pertain to the organizational principles of direction, balance, axis, orientation, and relationship. Hands-on projects emphasize the processes of thinking and planning, selection of tools and materials, thoughtful articulation of the built form, and critical analysis. Lab fee 4 will be assessed for this course.

**ART 206 - Drawing III – Anatomy | 3 hours**

Prerequisite(s): ART 104, ART 105—A course designed for fine art majors and animators that focuses on the study of the structure of the human body for the purpose of becoming visually sensitive to all the deformations on the surface with respect to form and light during movement and be able to draw from the live model both posed and during motion. This course includes a lab. Daily sketching and one portfolio quality finished drawing per week are required in addition to drawing done in class. Lab fee 4 will be assessed for this course.

**ART 221 - Painting I | 3 hours**

Prerequisite(s): ART 104, ART 105, ART 109, Admission to Fine Arts Program or permission of instructor—An introduction to the technical and material basics of painting, with a concentration on the obser-

vation of form, color, and light. Students work primarily from the still life using a method of direct paint application. Analyzing contemporary and historical paintings will cultivate an awareness of organizational structures and the communicative possibilities of painting. Lab fee 4 will be assessed for this course.

**ART 222 - Painting II | 3 hours**

Prerequisite(s): ART 221—This intermediate course is designed to allow the painting student to explore the styles and techniques of the masters focusing on light, brush strokes, glazes, and color. Lab fee 4 will be assessed for this course.

**ART 228 - Watercolor I | 3 hours**

Prerequisite(s): ART 104, ART 105 or permission of the instructor—A course designed to give the student a basic understanding of the techniques of transparent watercolor. The student studies brush-strokes, painting surfaces, paint characteristics, masking, and the overlay of colors using the white surface for tinting. A variety of subjects will be studied that require specific painting techniques in rendering surface textures such as water, clouds, and trees. Lab fee 4 will be assessed for this course.

**ART 230 - Introduction to Art Experiences | 2 hours**

A course designed to give education majors who don't have an art background an introduction to the creative art process and hands-on experience with a variety of art media and materials. Emphasis will be given to the aesthetic expression, media exploration, and art appreciation. Attention will also be given to the development of lesson plans that incorporate an artistic use of media, design, and composition. This course does not apply on a major or count toward any major or minor in the School of Visual Arts and Design. Lab fee 5 will be assessed for this course.

**ART 235 - Ceramics (S-3c) | 3 hours**

Fundamentals of the preparation and use of clay. Methods of fabrication from hand building to wheel-thrown wares, chemistry and application of glazes, and stacking and firing of kilns. Lab fee 6 will be assessed for this course. May be repeated for credit.

**ART 238 - Introduction to Art Therapy | 3 hours**

Prerequisite(s): ART 105, ART 109; PSYC 122, PSYC 128—An introductory course designed to introduce the pre-art therapy student to the field and practice of Art Therapy. A minimum of thirty contact hours in the practice setting of Art Therapy with hands on experience is required. Lab fee 4 will be assessed for this course.

**ART 295 - Directed Study | 1-3 hours**

Prerequisite(s): For students electing to take ART 295, permission of the instructor must be obtained. ART 495 is for majors and minors only—The course is designed for students who wish directed study or for a group of students who wish a special course not taught under the regular class offering. Students taking the class as directed study may choose from art history, ceramics, design, drawing, painting, printmaking, and sculpture. (Students must have had maximum classes offered in area.) This course also includes credit offered by the Art Department on directed study tours. Lab fee 6 will be assessed for this course. May be repeated for credit up to four times.

**ART 300 - Printmaking | 3 hours**

Prerequisite(s): ART 104 or permission of instructor—A course designed to give the art major experience in printmaking media. Relief, intaglio, and silk-screen will be covered. Lab fee 6 will be assessed for this course. Course will be taught in odd years.

**ART 306 - Drawing IV | 3 hours**

Prerequisite(s): ART 206—An investigation of space and its visible and invisible qualities and associations. Vast and minute spaces are examined from a variety of viewpoints. Emphasis is placed on the idea of Inside/Outside space. Perspective and non-perspective systems provide points of reference for creating spatial illusion as well as intensive media exploration. Students will push the range of invention as they develop a series of related works. Lab fee 5 will be assessed for this course.

**ART 310 - Painting III | 3 hours**

Prerequisite(s): ART 222 or permission of instructor—An advanced class in painting in which the student begins his or her personal idea search. It is expected that the student will develop content in this class that will be developed over the next two years. Constancy in style and focus are expected resulting in professional portfolio pieces. Lab fee 4 will be assessed for this course.

**ART 325 - Sculpture: The Figure | 3 hours**

Prerequisite(s): ART 104, ART 110—Introduction to the problems of form in sculpture and three-dimensional design using various media such as clay, plaster, wood, and metal casting. Lab fee 9 will be assessed for this course.

**ART 328 - Advanced Watercolor | 3 hours**

Prerequisite(s): ART 228—Advanced problems in watercolor technique where a personal style of painting and a body work focused on content is developed. Lab fee 4 will be assessed for this course.

**ART 331 - Illustration Methods (SERV-2) | 3 hours**

Prerequisite(s): ART 105—Students will learn illustration techniques using pencils, ink, markers, colored pencils, and photo retouching. Lab fee 4 will be assessed for this course.

**ART 340 - Introduction to Studio Practices | 3 hours**

Prerequisite(s): ART 222 or permission of instructor—An introductory course in studio practices, in which the student will acquire the skills to prepare for self-directed creative work. It is expected that the student will begin to develop content through visual research, inquiry, and material consideration that will be developed over the next two years. Students will push the range of invention as they develop a series of related works that shows consistency in style and focus both materially and conceptually. Lab fee 5 will be assessed for this course.

**ART 370 - Studio Practices | 3 hours**

Prerequisite(s): ART 340 or permission of instructor—In this course students continue the concepts and materials investigations begun in Intro to Studio Practices, in order to develop a cohesive body of work. Inquiry, along with observational, technical, conceptual, interpretive skills are emphasized in developing a more mature studio practice that incorporates goal setting, time management, and portfolio development. Lab fee 5 will be assessed for this course.

**ART 406 - Drawing V | 3 hours**

Prerequisite(s): ART 306—In this course students continue the series begun in Drawing IV in order to develop a cohesive body of work that informs and parallels creative works in other media. Observational, technical, conceptual, and interpretive skills will be emphasized. Lab fee 5 will be assessed for this course.

**ART 410 - Painting IV | 3 hours**

Prerequisite(s): ART 221 or permission of instructor—A continuation of portfolio development from Painting III with an emphasis on more mature studio practices such as time and portfolio management. Continuing the same content as in Painting III. Lab fee 4 will be assessed for this course.

**ART 412 - Preparing to Meet the Firms | 1 hour**

This course is made up of a series of topics presented in a seminar setting to provide students with necessary tools to actively pursue and acquire internships and jobs. Topics will include but are not limited to: Résumés, Networking, Corporate Climate, Interviewing, Dress, Portfolios, Company Research, Etiquette. Besides listening to guest presentations, opportunities will exist to interact with guest lecturers and professors about thoughts and theories regarding the area of job acquisition. Lab fee 4 will be assessed for this course.

**ART 420 - Advanced Studio Practices | 3 hours**

Students are expected to clarify their objectives, refine their technical abilities and develop a strong work ethic. Throughout the fall, students will research the sources that support their studio practice. Students will present a thesis draft and oral presentation on their investigations by the end of the semester. Approval by the Fine Art faculty is required for the development and execution of the thesis in the winter semester. Lab fee 5 will be assessed for this course.

**ART 470 - Thesis Project | 3 hours**

Students will pursue independent studio practice with a goal of producing a body of work to be shown in a curated exhibition and presented in their professional portfolio. The body of work will have a written thesis document that supports the thesis draft from the fall semester. This course is taken in conjunction with ART 480. Lab fee 5 will be assessed for this course.

**ART 480 - Professional Practices | 2 hours**

A preparation for professional artistic practice and/or graduate school. Portfolio design, artist statement, resumé, and applications will be prepared and topics relevant to professional artistic practice discussed. Lab fee 5 will be assessed for this course.

**ART 495 - Directed Study | 1-3 hours**

Prerequisite(s): For students electing to take ART 295, permission of the instructor must be obtained. ART 495 is for majors and minors only—See ART 295 for course description. Times. Lab fee 6 will be assessed for this course.

## Art Education

### ARTE 295 - Directed Study | 1-3 hours

This course involves individual or group work adjusted to meet particular needs in Art Education. Content is chosen by the faculty adviser and the student. May be repeated.

### ARTE 338 - Elementary Methods in Art | 3 hours

This course introduces the art education student to lesson plan design specific to art. The teacher is required to produce demonstration pieces for lessons, and incorporate Discipline Based Art Education methods recommended by the National Art Education Association into the lesson format. Text with a specific focus on art education learning process for K-6 will be covered also. The student will participate in the observation of professional teachers and will teach a lesson of their own creation. The application of art criticism, relative to K-6 understanding will also be covered in the class.

### ARTE 368 - Secondary Methods in Art | 3 hours

Prerequisite(s): ARTE 338—This course introduces the art education student to lesson plan design and unit design specific to art. The teacher is required to produce demonstration pieces for lessons, and incorporate Discipline Based Art Education methods recommended by the National Art Education Association into the lesson format. Text with a specific focus on art education learning process for secondary level students will be covered also. The student will participate in the observation of professional teachers and will teach a lesson of their own creation. Art criticism relative to secondary level students understanding will also be explored.

### ARTE 495 - Directed Study | 1-3 hours

See ARTE 295 for course description.

## Film Production

### ARTF 111 - Intro to Film Production | 3 hours

This course provides an overview of the entire film production model including story development, pre-production, production, post-production, and distribution. It will also introduce students to the principles and use of tools of filmmaking, including motion picture cameras. This is a studio course. Lab fee 12 will be assessed for this course.

### ARTF 114 - Film Business and Management | 3 hours

Students act as producers on a short film. Special attention is given to hiring cast and crew, making proper use of legal documents, budgeting, scheduling, and distribution. This is a lecture/studio course. Lab fee 6 will be assessed for this course.

### ARTF 215 - Lighting | 3 hours

Students learn the fundamentals of how to use light to create moods and effects especially as related to motion picture and still photography. This is a lecture/lab course. Lab fee 12 will be assessed for this course.

### ARTF 226 - Screenwriting I | 3 hours

Prerequisite(s): ENGL 101, ENGL 102, Admission to Film Program, or permission of instructor—This is intended for Film Production and Animation students to develop skills in the art of writing for the screen. Attention will be given to audience, theme, character, plot construction, dramatic structure, dialogue, and elements of film space and timing. This is a lecture/lab course. Lab fee 6 will be assessed for this course.

### ARTF 235 - Cinematography | 3 hours

Prerequisite(s): Admission to Film Program—This course continues instruction in the craft of capturing moving images with film and digital video cameras. Special emphasis is placed on camera movement, blocking, and shot flow. The course is project-oriented, and students will work with seniors enrolled in ARTF 372 to produce complete short films. This is a studio course. Lab fee 16 will be assessed for this course.

### ARTF 265 - Topics in Film Production | 1-3 hours

Full participation in workshops and seminars presented by active professionals in the field. The presentations are offered in intensive blocks over the weekends two to three times per year. Selected topics are related to all areas of the film production field. This is a studio course. Lab fee 9 will be assessed for this course.

### ARTF 295 - Directed Study | 1-3 hours

This course involves individual or group work adjusted to meet particular needs in Film Production. Content is chosen by the faculty adviser and the student. Lab fee 12 will be assessed for this course. May be repeated.

**ARTF 320 - Post Production | 3 hours**

Students will learn non-linear film editing techniques. Special attention is paid not only to technical proficiency but to the pacing and overall flow and continuity of scenes. This is a lecture/lab course. Lab fee 12 will be assessed for this course.

**ARTF 328 - Screenwriting II | 3 hours**

Prerequisite(s): ARTF 226—Students write several short screenplays, as well as one feature length screenplay intended for portfolio use. This is a lecture/lab course. Lab fee 6 will be assessed for this course.

**ARTF 353 - Directing the Documentary (SERV-2) | 3 hours**

Pre- or Co-requisite: ARTF 320—Students produce several documentary films and analyze documentary films paying special attention to the kinds of creative and practical challenges documentary film makers confront. This is a lecture/studio course. Lab fee 12 will be assessed for this course.

**ARTF 372 - Senior Project I | 3 hours**

Pre- or Co-requisites: ARTF 328, ARTF 422—This is the first class in a sequence where students develop and execute a major project in order to hone the skills they have acquired during their academic career. Key components include artistic storytelling, technical proficiency, and content that is compatible with the mission of Southern Adventist University. Ideally this course should be taken during the first semester of the senior year, and encompasses the development and production phase of the project. Lab fee 12 will be assessed for this course.

**ARTF 422 - Directing the Narrative | 3 hours**

Prerequisite(s): ARTF 328—Film students will be introduced to fundamentals of acting and directing as they direct each other in short scenes. Attention will also be given to how to communicate clearly with the cast and key department heads. This is a lecture/studio course. Lab fee 12 will be assessed for this course.

**ARTF 465 - Topics in Film Production | 1-3 hours**

See ARTF 265 for course description. Lab fee 9 will be assessed for this course.

**ARTF 472 - Senior Project II | 3 hours**

Prerequisite(s): ARTF 372—In this sequence students will develop and execute a major project that should represent the skills that they have honed during their academic career. This second phase, taken first semester of the senior year, will encompass pre-production and production phases of the project. Lab fee 12 will be assessed for this course.

**ARTF 492 - Film Production Internship | 3 hours**

Prerequisite(s): Completion of at least half of the hours required for a major in film production. Submission and approval of a demo reel, résumé, and a written summary of interviews with three industry professionals—Students will work on a project in the film industry during the summer, preferably an 8 to 12 week period between the junior and senior year. At least 300 clock hours of work experience are required.

**ARTF 495 - Directed Study | 1-3 hours**

See ARTF 295 for course description. Lab fee 12 will be assessed for this course.

## Computer Graphics

**ARTG 115 - Introduction to Computer Graphics (I-2c) | 3 hours**

Pre- or Co-requisite: ART 109—An introductory creative imaging course for those interested in professional visual art fields such as graphic design, film, animation, and interactive visual communication. This course introduces students to the Adobe Creative Suite's basic tools and principles for the acquisition, creation, manipulation, and output of both bitmapped and vector-based digitally generated compositions. Lab fee 12 will be assessed for this course.

**ARTG 121 - Typography I | 3 hours**

Prerequisite(s): ART 109; ARTG 115—An introductory course examining the conceptual and practical application of type as a visual design element. Students investigate the role of type as a tool to convey both information and aesthetics, through a series of projects that explore creative innovation as well as timeless typographic principles. Foundation concepts of typographic structure and organization, historical typography highlights, and type dynamics are emphasized. Lab fee 12 will be assessed for this course.

**ARTG 122 - Typography II | 3 hours**

Prerequisite(s): ARTG 121—This intermediate course builds on previous typographic investigation to address more comprehensively the various roles of type in visual communication. Studio projects

inquire into advanced typographic concepts, such as the need for synergy between type and image, the conceptual and mechanical process of creating original typeface designs, and concerns of readability and legibility when incorporating large amounts of type as body copy. Lab fee 12 will be assessed for this course.

**ARTG 138 - Design Studio I | 3 hours**

Pre or Co-requisites: ART 109; ARTG 115—A course which surveys the important historical events and technological innovations that have contributed to current trends and practices in the field of graphic design. Lecture presentations, research, discussion, and visual exercises combine to develop the student's awareness of historical and current technologies, and the artists and designers who have used them to shape the world through visual communication. Studio components of the course give students the opportunity to practice the production techniques needed to create visual interpretations of the lecture content. Lab fee 6 will be assessed for this course.

**ARTG 210 - Vector Graphics | 3 hours**

Prerequisite(s): ART 109; ARTG 115, or permission of the instructor—A course designed to develop skills needed for producing vector-based digital art. Students with a basic knowledge of vector graphic concepts will gain a comprehensive understanding of the uses of the industry standard vector drawing program, Adobe Illustrator. Emphasis is placed on the application of design principles to the digital environment. Lab fee 12 will be assessed for this course.

**ARTG 212 - Raster Graphics | 3 hours**

Prerequisite(s): ARTG 115; ART 110 or permission of the instructor—In this course the student will address the creation and manipulation of raster-based imagery in a comprehensive manner using the industry standard image-editing program, Adobe Photoshop. Color correction, scanning resolutions, selection tools, image adjustments, collage and montage techniques, masking, and the effective application of filters, blend modes, and effects to images designed for use in digital and printed media will be studied in detail. Lab fee 12 will be assessed for this course.

**ARTG 238 - Design Studio II | 3 hours**

Prerequisite(s): ARTG 138—A foundation course that explores both the creative process and the commercial production concerns of making images for visual communication. By focusing on methodologies for ideation and conceptualization, the development of craft in concept rendering, and the printed production of finished compositions incorporating traditional and digital media, students will practice both the conceptual thinking and mechanical skills needed to achieve consistently effective design solutions. Lab fee 15 will be assessed for this course.

**ARTG 265 - Topics in Computer Graphics | 1-3 hours**

Participation in workshops and seminars offered by active professional graphic designers and adjunct faculty. The presentations are offered in an intensive block two to three times per semester. Selected topics include all areas related to the field of Graphic Design. Lab fee 12 will be assessed for this course. (Winter)

**ARTG 295 - Directed Study | 1-3 hours**

This course involves individual or group work adjusted to meet particular needs in Graphic Design. Content is chosen by the faculty adviser and the student. Lab fee 12 will be assessed for this course. May be repeated.

**ARTG 324 - Editorial Design | 3 hours**

Prerequisite(s): ARTG 122 and ARTG 238 or permission of instructor—In this course students focus on conceptual design as the foundation for editorial expression. The development of page structure is emphasized as the method for effectively interweaving the use word and image in multi-page publications. Students learn to balance editorial aesthetics, production considerations, and publication time constraints as they produce a series of multiple page projects. Lab fee 12 will be assessed for this course.

**ARTG 332 - Advertising Design | 3 hours**

Prerequisite(s): ARTG 212—This course deals with the development of a creative concept used to promote a product with a variety of computer generated visual images. The class is grouped in teams which create and present a professional looking advertising campaign. The course ends with a general critique of the entire project. Lab fee 12 will be assessed for this course.

**ARTG 335 - Three-dimensional Graphic Design | 3 hours**

Prerequisite(s): ARTG 238—A course that explores the synergistic potential of applying graphic elements to three-dimensional structures and environments. Students learn the fundamentals of dimensional construction, while honing their ability to capture audience attention through innovative forms and graphics. Diverse market areas are explored, including retail and promotional packaging, exhibition design, product design, environmental signage, and wayfinding systems. Emphasis is placed on craftsmanship and the imaginative use of materials. Lab fee 14 will be assessed for this course.



**ARTG 338 - Design Studio III | 3 hours**

Prerequisite(s): ART 238 or permission of instructor—A course in which students continue to expand their intellectual and creative abilities by designing portfolio-quality work, using a wide variety of formats and technical specifications. The student's ability to articulate a design rationale, in conjunction with visual decision-making, is reinforced, along with a thorough investigation of printing production considerations. Lab fee 12 will be assessed for this course.

**ARTG 420 - Corporate Identity (SERV-2) | 3 hours**

Prerequisite(s): ARTG 212—A course in which a logo is created as a base for the development of an identity system which an organization will project on various means of visual communication. Lab fee 12 will be assessed for this course.

**ARTG 432 - Senior Design Studio | 3 hours**

Prerequisite(s): Senior standing in Graphic Design major—This course prepares students to transition to a career in graphic design by combining instruction in the preparation of a quality portfolio with a comprehensive introduction of fundamental design business practices. Degree candidates hone the business, promotional, networking, and interviewing skills that will be needed in the professional work environment. Lab fee 12 will be assessed for this course.

**ARTG 465 - Topics in Computer Graphics | 1-3 hours**

See ARTG 265 for course description. Lab fee 12 will be assessed for this course.

**ARTG 491 - Graphic Design Practicum | 1-3 hours**

Students will work in a graphics related business for a minimum of 50 clock hours per credit hour with employer evaluation. Students must maintain a log sheet and samples of work.

**ARTG 495 - Directed Study | 1-3 hours**

See ARTG 295 for course description. Lab fee 12 will be assessed for this course.

**Art History****ARTH 218 - Art Appreciation (S-3b) | 3 hours**

Lecture and travel seminar. Survey and appreciation course of art history from pre-historic to modern times. One class is offered in the fall semester, with two hours per week lecture, and the week of Thanksgiving spent in and New York City visiting major art museums. When offered in the first summer session, there will be one week of two-hour lectures and two weeks of travel and museum visits. There is an additional charge for travel. Students will be required to write a summary paper. Students taking the class for upper division credit will be required to write a research paper. Lab fee 20 will be assessed for this course.

**ARTH 265 - Topics in Art History | 1-3 hours**

Selected areas in art history such as museum studies or study tour.

**ARTH 295 - Directed Study | 1-3 hours**

This course involves individual or group work adjusted to meet particular needs in Art History. Content is chosen by the faculty adviser and the student. May be repeated.

**ARTH 318 - Art Appreciation (S-3b) (W) | 3 hours**

See ARTH 218 for course description. Lab fee 20 will be assessed for this course.

**ARTH 342 - Renaissance Art History (S-3b) (W) | 3 hours**

An art survey course focusing on the rise of humanism and its influence on art and architecture. This course covers the interactions between major Italian and Northern Renaissance artistic centers and their movements from AD 1300 to 1600. Attention is given to the baroque artists and those expressions reacting to the Protestant Reformation.

**ARTH 344 - Ancient Art History (S-3b) (W) | 3 hours**

An art survey course examining the painting, sculpture, and architecture of the ancient Near East and the rise of western civilization from the earliest period to about AD 70. Students will be introduced to Egyptian, Greek, and Roman movements from a variety of artistic genres in relation to their social, political, and religious contexts.

**ARTH 345 - Contemporary Art (S-3b) (W) | 3 hours**

An art survey course tracing the rise of modernism after the French Revolution through the nineteenth century, culminating in recent postmodern developments of twenty-first century artistic expression. Special attention will be given to European and American arts and the incessant demand for the shock of the new.

**ARTH 465 - Topics in Art History | 1-3 hours**

See ARTH 265 for course description.

**ARTH 492 - Art History Internship | 3 hours**

Professional work experience in an art museum or art gallery with a minimum of 100 clock hours per credit hour and evaluation by employer. Students will work in any/or all capacities related to curatorial, education, conservation, administration, or library and will be based on their academic training, interests, and the needs of the gallery/museum.

**ARTH 495 - Directed Study | 1-3 hours**

See ARTH 295 for course description.

## Interactive Media

**ARTI 124 - Programming for Artists | 3 hours**

This course teaches the fundamentals of programming in a visual context. Students will learn functions, expressions, control statements, object-oriented concepts, events, conditionals, recursion, loops, data types, and arrays. A visual approach to designing algorithms will also be employed for major projects. Previous experience with programming is not required for this course. Lab fee 9 will be assessed for this course.

**ARTI 223 - Interactive Media I | 3 hours**

Prerequisite(s): ARTG 115; ARTI 124—This course will introduce students to planning and designing websites using HTML and CSS, with an emphasis on accessibility and usability. Additionally, students will learn about site management, graphics optimization, internet history, and the architecture of the World Wide Web. Lab fee 12 will be assessed for this course.

**ARTI 230 - Sound Design | 3 hours**

Students will conduct recordings and use digital audio tools to create sound for motion pictures and interactive systems. By integrating visual design with sound theory, students will learn ADR, Foley, effects, mixing techniques, sound management, sampling, and MIDI music creation. Three hour lecture. Lab fee 12 will be assessed for this course.

**ARTI 265 - Topics in Interactive Media | 1-3 hours**

This course is designed to be an access point to a broad variety of subjects in interactive media. Lab fee 12 will be assessed for this course. The course may be repeated with permission.

**ARTI 295 - Directed Study | 1-3 hours**

This course involves individual or group work adjusted to meet particular needs in Interactive Media. Content is chosen by the faculty adviser and the student. May be repeated.

**ARTI 324 - Interactive Media | 3 hours**

Prerequisite(s): ARTG 212—This course introduces students to the process of using HTML and CSS to design, develop, and implement websites, with an emphasis on the creation of effective user experiences. Lectures and demonstrations will focus on implementing standards compliant code, while developing design concepts that are both functionally and aesthetically effective. Readings, exercises, and assignments allow students to explore and learn these concepts. Additionally, students will learn about site management, graphics optimization, and the architecture of the World Wide Web.

**ARTI 329 - Multimedia | 3 hours**

Prerequisite(s): AART 108; ARTG 212—In this course, students learn how to design and develop interactive products and visualizations that incorporate multiple medias, such as sound, text, 2D and 3D assets into a usable experience. Lab fee 12 will be assessed for this course.

**ARTI 424 - Advanced Interactive Media | 3 hours**

Prerequisite(s): ARTI 324—This course focuses on the complexities of designing for user experience while integrating the creation and management of dynamic interactive content. Students will develop concepts through research, prototyping, testing, and peer assessment. Conceptual thinking and design aesthetics will be emphasized. Readings, exercises, collaborative work and assignments allow student to explore and learn these concepts.

**ARTI 427 - Interactive Video and Sound | 3 hours**

Prerequisite(s): ARTI 230—Students will explore and express their own audio-visual experiences through interactive video and sound synthesis programming. Five hour studio course. Lab fee 12 will be assessed for this course.

**ARTI 432 - 3D Environments | 3 hours**

Prerequisite(s): AART 108—This course teaches students to create interactive audio and visual experiences that are three dimensional with dynamic motion, programmable triggers and events, sound and animation. Five hour studio course. Lab fee 12 will be assessed for this course.

**ARTI 437 - New Media Applications | 3 hours**

This course covers historical influences of technology and art in relation to current trends in New Media. Various artists and mediums will be researched for the application of the final project. Three hours of lecture. Lab fee 9 will be assessed for this course.

**ARTI 440 - Digital Portfolio | 3 hours**

Prerequisite(s): Senior status or permission of instructor—This course teaches students to create successful digital portfolios. During the course of study students will learn about interface design, informational architecture, flowcharting, software and hardware constraints, digital publishing, basic scripting, and asset management. Lab fee 12 will be assessed for this course.

**ARTI 465 - Topics in Interactive Media | 1-3 hours**

See ARTI 265 for course description. Lab fee 12 will be assessed for this course.

**ARTI 480 - Self Promotion | 1 hour**

Students will prepare for job placement or higher education enrollment by researching specific areas in interactive design. Their portfolio will be refined along with their skills in interviewing, job hunting, and resume writing. Select faculty members will conduct a final review of the student's portfolio and career preparation. Lab fee 5 will be assessed for this course.

**ARTI 491 - Interactive Media Practicum | 1-3 hours**

Students will work the interactive design business for a minimum of 50 clock hours per credit hour with employer evaluation. Students must maintain a log sheet and samples of work.

**ARTI 495 - Directed Study | 1-3 hours**

See ARTI 295 for course description.

## American Sign Language

**ASL 101 - American Sign Language I (I-3c) | 3 hours**

An introductory class in American Sign Language designed for the student with little or no signing experience. Course focus is on developing beginning sign communication for basic conversational usage. Lab fee 3 will be assessed for this course.

**ASL 102 - American Sign Language II (I-3c) | 3 hours**

Prerequisite(s): ASL 101 or equivalent—A continuation of American Sign Language I with an ongoing emphasis on expressive and receptive sign communication development. Further attention is placed on ASL grammar and deaf culture. Students seeking a Bachelor of Arts degree must check with their School/Department prior to taking this course. Lab fee 3 will be assessed for this course.

**ASL 207 - Intermediate American Sign Language I (I-3c) | 3 hours**

Prerequisite(s): ASL 102 or approval of the department—This course offers practice in conversational ASL with an emphasis on increasing fluency and expressing concepts with appropriate signs. This course includes vocabulary building, finger-spelling drills, grammar instruction, and information regarding the Deaf Culture. Lab fee 3 will be assessed for this course.

**ASL 208 - Intermediate American Sign Language II (I-3c) | 3 hours**

Prerequisite(s): ASL 207 or approval of the department—This course prepares students for advanced levels of conversation with deaf and for entry level interpreting classes. Speed and fluency is emphasized as well as expressing difficult concepts with appropriate signs and finger-spelling. This course includes vocabulary building, finger-spelling drills, grammar instruction, and information of Deaf Culture. Lab fee 3 will be assessed for this course.

**ASL 250 - Deaf Culture (I-3b) | 3 hours**

This course would focus on the historical and cultural overview of the American Deaf community. Topics include value systems of education, traditions, folklore, organizations, language, community, and identity as a cultural group. This course includes authentic experiential opportunities. (Winter)

**ASL 265 - Topics in American Sign Language | 1-3 hours**

Selected topics in American Sign Language presented in a classroom setting. This course may be repeated for credit.

**ASL 340 - ASL Linguistics | 3 hours**

Prerequisite(s): ASL 102—This course focuses on the unique grammatical components of American Sign Language demonstrating how language functions in a signed format and compares to other signed and spoken languages around the world. Course will assist student to view ASL from a more “informed vantage point.”

**ASL 465 - Topics in American Sign Language | 1-3 hours**

See ASL 265 for course description.

## **Biology**

**BIOL 101 - Anatomy and Physiology (I-4a) | 4 hours**

Prerequisite(s): Minimum composite ACT of 18 or permission of the department—A study of the fundamentals of human anatomy and physiology. This course covers basic cytology, histology, musculoskeletal, nervous, and endocrine systems. Does not apply to a major or minor in Biology. Three lectures and one three-hour laboratory period each week. Lab fee 7 will be assessed for this course.

**BIOL 102 - Anatomy and Physiology (I-4a) | 4 hours**

Prerequisite(s): BIOL 101—A study of the fundamentals of human anatomy and physiology. This course covers integumentary, cardiovascular, lymphatic/immunity, respiratory, digestive, urinary, reproductive systems, along with metabolism, genetics, and development. Does not apply to a major or minor in Biology. Three lectures and one three-hour laboratory period each week. Lab fee 7 will be assessed for this course.

**BIOL 103 - Principles of Biology (I-4a) | 3 hours**

A basic general education biology course designed to give the student a modern treatment of the fundamental processes and principles of plant and animal life. Does not apply on a major or minor in Biology. Two lectures and one three-hour laboratory period each week. Lab fee 4 will be assessed for this course.

**BIOL 151 - General Biology (I-4a) | 4 hours**

Prerequisite(s): Minimum composite ACT of 18 or permission of the department—This is a rigorous introductory course in Biology primarily for science majors and pre-professional students. It introduces the student to biology as a science; the scientific method; cell structure and function; cell energetics; Mendelian and molecular genetics; diversity of life—the plant and animal kingdoms; reproductive patterns; anatomy and physiology; and ecological interactions and life origin. It is prerequisite to most all other Biology major courses. Four lectures and one three-hour laboratory period each week. Lab fee 7 will be assessed for this course.

**BIOL 152 - General Biology (I-4a) | 4 hours**

Prerequisite(s): Minimum composite ACT of 18 or permission of the department—This is a rigorous introductory course in Biology primarily for science majors and pre-professional students. It introduces the student to biology as a science; the scientific method; cell structure and function; cell energetics; Mendelian and molecular genetics; diversity of life—the plant and animal kingdoms; reproductive patterns; anatomy and physiology; and ecological interactions and life origin. It is prerequisite to most all other Biology major courses. Four lectures and one three-hour laboratory period each week. Lab fee 7 will be assessed for this course.

**BIOL 225 - Basic Microbiology | 4 hours**

Prerequisite(s): BIOL 101 or permission of instructor—A study of the principles of microbiology, disinfection, sterilization, elementary immunology, and microorganisms emphasizing their relationship to health and disease. Does not apply on a major or minor in Biology. Three lectures and two one and one-half hour laboratory periods each week. Lab fee 7 will be assessed for this course.

**BIOL 252 - Tropical Biology (I-4a) | 3 hours**

A general introduction to the tropical habitats of Asia with the plants and animals that inhabit them. Both terrestrial and marine habitats are studied through exploration of volcanoes, nature parks, and a marine preserve. Involves three weeks in tropical Asia. Lab fee 33 will be assessed for this course. (Summer, even years)

**BIOL 255 - Introduction to Dentistry | 1 hour**

An introduction to the field of dentistry covering basic dental terminology, dental nomenclature, and tooth morphology. Guest lecturers from various dental specialties share perspectives on dentistry as a career as well as giving an overview of the scope of treatment in the specialty. Factors necessary for good personal dental health are emphasized. Laboratory experiences introduce the student to dental waxing procedures as well as to practice manual dexterity carving skills.

**BIOL 282 - Introduction to Biological Research | 3 hours**

Prerequisite(s): BIOL 151, BIOL 152 with a grade of C- or better—An introduction to the principles of scientific research, including the function of the scientific method, literature searches, research techniques, writing of grant proposals, and how to publish results. EOG lecture attendance required.

**BIOL 286 - Biology Seminar | 1 hour**

Prerequisite(s): Biology major or minor—Corequisite(s): BIOL 303—An introduction to oral scientific communication. Students learn to evaluate scientific literature, present their findings orally, and critically and constructively evaluate peer and expert presentations. The preparation and delivery of short oral presentations is required. E.O.G. lecture attendance required (usually Thursdays 7:30-8:30).

**BIOL 295 - Directed Study | 1-3 hours**

Prerequisite(s): BIOL 151-BIOL 152—Designed for the individual student or group of students who wish to do independent study in an area of biology not listed in the regular offerings. Content and method of study must be arranged for prior to registration. This course may be repeated for credit. BIOL 495 open to Biology majors or minors only. (Fall, Winter, Summer—upon request)

**BIOL 297 - Research in Biology | 1-2 hours**

Prerequisite(s): BIOL 282, BIOL 305 or permission of instructor—Individual research under the direction of members of the staff. Problems will be selected according to the interest and experience of the student. Prior to registration, students are urged to contact all biology staff members with respect to the choice of available research problems. This course should be taken not later than the first semester of the senior year. This course may be repeated for credit. (Fall, Winter, Summer—upon request)

**BIOL 303 - Introduction to Biological Research (W) | 1 hour**

Prerequisite(s): BIOL 151—Corequisite(s): BIOL 286—An introduction to the principles of scientific research, including the function of the scientific method, literature searches, research techniques, writing of grant proposals, and how to publish results. E.O.G. lecture attendance required (usually Thursdays 7:30-8:30).

**BIOL 305 - Proposal Writing | 1 hour**

Prerequisite(s): BIOL 282 with a grade of C or better or consent of instructor—The student will develop a research project in consultation with a principal investigator (biology professor), and a guidance committee (two additional professors). The proposal will be presented in both written and oral formats. With prior approval and continued involvement of the guidance committee, a student may accomplish these requirements as part of an off-campus research experience.

**BIOL 311 - Genetics | 4 hours**

Prerequisite(s): BIOL 151 or BIOL 225—A study of heredity as related to man, domestic plants and animals and an investigation of gene structure and function. Three lectures and one three-hour laboratory period each week.

**BIOL 312 - Vertebrate Natural History | 3 hours**

Prerequisite(s): BIOL 151 - BIOL 152—Natural history of the vertebrate classes including ecology, physiology, behavior, classification and identification, with emphasis on local species. Two lectures and one three-hour laboratory each week. Lab fee 11 will be assessed for this course.

**BIOL 313 - Developmental Biology | 3 hours**

Prerequisite(s): BIOL 151 - BIOL 152—An introduction to embryonic development from the formation of germ cells through the maturation of major organs culminating in parturition. Special reference is made to humans. Emphasis is placed on problems of growth, differentiation, and morphogenesis. Laboratory includes microscopic study and experiments with sea urchin, frog, and chick embryos. Two lectures and one three-hour laboratory period each week.

**BIOL 314 - Ornithology (I-4a) | 3 hours**

A study of the birds and their natural history with an emphasis on bird identification. Major topics covered in lectures are morphology, anatomy, taxonomy, and an introduction to behavior. Laboratory sessions are held on Sunday mornings. The laboratory component consists primarily of bird-watching hikes to learn birds by sight and sound. Two lectures per week. Approximately 50 hours of lab per semester. Lab fee 6 will be assessed for this course.

**BIOL 315 - Human Parasitology (W) | 3 hours**

Prerequisite(s): BIOL 151 - BIOL 152—A general survey of the more important parasites of man and domestic animals. Two lectures and one three-hour laboratory period each week.

**BIOL 317 - Ecology (SERV-2) | 3 hours**

Prerequisite(s): BIOL 151 - BIOL 152—Ecology is a study of the interrelationships of plants, animals and their environment. This course examines these interactions in the context of energy flow, nutrient cycles,

limiting factors, succession and population dynamics. Field work introduces various ecological sampling techniques and the student participates in an ecological analysis of various local communities as well as extended field trips. Two lectures and one field trip or three-hour laboratory period each week. Lab fee 6 will be assessed for this course.

**BIOL 320 - Entomology | 3 hours**

Prerequisite(s): BIOL 151 - BIOL 152—A systematic study of the insects of the world considering anatomy, physiology, behavior and relation to humans. In the laboratory, emphasis is placed on identifying local insects and a representative collection is turned in. Short field trips are planned as part of the laboratory work. Two lectures and one three-hour laboratory period each week.

**BIOL 321 - Field Ecology | 3 hours**

This course covers general ecology principles and ecology of a selected field area. Emphasis will be placed on identification of amphibians, reptiles, mammals, birds, insects and plants and their ecological interactions. The course will include time at both Southern and the selected field area. Lab fee 20 will be assessed for this course. (Summer, odd years).

**BIOL 329 - General Microbiology | 3 hours**

Prerequisite(s): BIOL 151 - BIOL 152—A general study of bacteria, yeasts, molds and viruses, considering their morphology, physiology, genetics, and methods of control. Study is given in immunology topics: antigen-antibody properties, host-antigen interactions, humoral and cellular immune systems. The importance of microorganisms in environmental and applied fields is considered. Two lectures and one three-hour laboratory period each week.

**BIOL 340 - Immunology | 3 hours**

Prerequisite(s): BIOL 151 - BIOL 152—A study of the basic aspects of the human immune system including topics such as antigen and antibody structure and reactions, humoral and cell mediated immunity, hypersensitivity, immune disease and transplantation immunology. Two lectures and one three-hour laboratory period each week.

**BIOL 365 - Topics in Biology (W) | 1-3 hours**

Formal course work designed to meet the needs or interests of students in specialty areas of Biology not covered in regular courses. Additional fee may be required. May be repeated in different specialized areas.

**BIOL 366 - Rosario Beach Topics in Biology | 3.3 hours**

Formal coursework designed to meet the needs or interests in specialty areas of biology not covered in regular courses. These are offered at Rosario Beach Marine Station owned by Walla Walla University. Additional fee may be required. May be repeated in different specialized areas.

**BIOL 375 - Plants in Medicine | 3 hours**

Prerequisite(s): BIOL 151 - BIOL 152; CHEM 152—This field study of trees and flowering plants emphasizes identification of medically important species. Use of keys, various field and photo collections for identification of plants and the study of selected phytochemicals currently encountered in medicine will be emphasized. Two lectures and one field trip or three-hour laboratory period each week.

**BIOL 387 - Animal Behavior | 3 hours**

Prerequisite(s): BIOL 151 - BIOL 152 or PSYC 122 and PSYC 128—This course is cross-listed with PSYC 387. A student may receive credit for this course from only one program—The behavior of animals is studied with a focus on both proximate causes (mechanisms) and ultimate causes (survival strategies) of behavior. Special importance is placed on understanding techniques of experimental study and hypothesis testing. Topics covered include: genetic, developmental, and physiological bases of behavior; instinct and learning; communication; habitat selection; feeding, antipredatory, reproductive, and parenting strategies; mating systems, social behavior and human sociobiology. Three lectures each week.

**BIOL 409 - Smoky Mountain Flora | 3 hours**

Prerequisite(s): BIOL 152—A field study of the wild flowers, shrubs and trees in the Great Smoky Mountain National Park, which contains the world's finest examples of temperate deciduous forest. Plants are identified by means of botanical keys, and observation lists are kept. Special attention is given to the different forest types and their associated plants. Involves a 10-day to three-week camping study experience. Field trips daily. Lab fee 11 will be assessed for this course. (Summer)

**BIOL 411 - Mammalogy | 3 hours**

Prerequisite(s): BIOL 151 - BIOL 152—A study of the mammals of the world, with emphasis on North America. Includes classroom and field study of systematics, distribution, behavior and ecology. A small collection is required in the laboratory. An extended weekend field trip will be required as part of

laboratory credit. Two lectures and one three-hour laboratory each week. Lab fee 5 will be assessed for this course.

**BIOL 412 - Cell and Molecular Biology | 4 hours**

Prerequisite(s): BIOL 311; CHEM 311—This course, designed for advanced Biology and Chemistry majors, deals primarily with cell structure and function. Building on cellular principles learned in BIOL 151 - BIOL 152 and BIOL 311, the student is exposed to methods of cellular and molecular research while learning about the appearance and operation of cellular organelles. The exciting details of cell integration and control provide the framework for this interdisciplinary study. Three lectures and one three-hour laboratory period each week.

**BIOL 416 - Human Anatomy | 3 hours**

Prerequisite(s): Senior standing—An introductory study of human anatomy with an emphasis on the skeletal, muscular, nervous, and circulatory systems. One lecture and two three-hour laboratory periods each week. Lab fee 11 will be assessed for this course.

**BIOL 417 - Animal Histology | 3 hours**

Prerequisite(s): BIOL 151 - BIOL 152—A descriptive study of normal tissues, primarily those of man. The microscopic identification and characteristics of stained sections are emphasized in the laboratory. Two lectures and one three-hour laboratory period each week.

**BIOL 418 - Animal Physiology | 3 hours**

Prerequisite(s): BIOL 151 - BIOL 152; CHEM 151 - CHEM 152 or BIOL 101 - BIOL 102—Functional processes used by animals in adjusting to their external environment and controlling their internal environment. Laboratories involve analysis of functions of major organ systems. Three lectures and one three-hour laboratory period each week.

**BIOL 421 - Issues in Science and Society (I-4a) (W) | 3 hours**

This course is cross-listed with RELT 421, School of Religion. A student may receive credit for this course from only one program—A study of the philosophical basis of modern natural science as it relates to current issues in origins, biotechnology, bioethics, and environmental responsibility. Special attention is given to Christian perspectives of the issues discussed. This is a writing class and enrollment is limited. Seniors will be given preference. BIOL 421/RELT 421 will not count toward a biology major or minor.

**BIOL 424 - Issues of Natural Science and Religion (W) | 3 hours**

A study of the scientific, philosophical and religious basis of modern science as it relates to issues in origins and speciation. The course will involve a comparison of the data related to various theories on the origin and history of living organisms based upon current knowledge in biology, paleontology, genetics, and other related areas. Special consideration will be given to Christian perspectives of the issues discussed. Recommended for the junior year. Three lectures each week.

**BIOL 458 - Ecotoxicology | 3 hours**

Prerequisite(s): BIOL 151 - BIOL 152—Introduces the fundamentals of toxicology: harmful properties of chemicals, routes of exposure, factors that influence toxicity, targets of toxicity, and experimental methods. The class then focuses on how toxicants affect individuals, communities, populations, ecosystems, mass animal die offs, and animal development. Lab fee 6 will be assessed for this course.

**BIOL 476 - Research in Biology I (W) | 1-2 hours**

Prerequisite(s): BIOL 303—See BIOL 297 for course description. May be repeated for credit.

**BIOL 490 - Senior Capstone | 1 hour**

The Biology Capstone course is designed to bring the different fields of study into one condensed, unified, overarching view. Students will participate in discussion on assigned readings from major works in biological literature. They will also review fundamental themes in preparation for taking the MFAT exit exam at the end of the semester.

**BIOL 495 - Directed Study | 1-3 hours**

Prerequisite(s): BIOL 151 - BIOL 152—See BIOL 295 for course description.

**BIOL 496 - Senior Thesis (W) | 1 hour**

Prerequisite(s): BIOL 476 and permission of instructor—This course is designed to help a student develop a publishable-quality research paper. Instruction consists of writing techniques and guidance in completing the research project. Students will give several oral progress reports, a final presentation at a Biology Research Symposium, and a completed Senior Thesis.

## Marketing

### **BMKT 229 - Personal Selling | 3 hours**

Designed to teach strategies that will increase promotional effectiveness when selling through personal, retail, and/or wholesale markets. This course focuses predominantly on personal sales. Topics include: prospecting, contact management, sales interaction and presentation, closing the sale, and follow-up.

### **BMKT 265 - Topics in Marketing | 1-3 hours**

Prerequisite(s): Permission of the instructor—Selected topics designed to meet the needs or interests of students in specialty areas of business and management. This course may be repeated for credit with permission.

### **BMKT 292 - Sales Internship | 3 hours**

This course is designed primarily for students seeking an AS degree in Personal Selling. Students obtain on-the-job experience working under supervision either in direct selling or at a wholesaler, retailer, or company sales department on a full-time basis. A minimum of 100 clock hours of work experience is required for each semester hour of credit. (Note: A maximum of 3 credit hours of internship may apply in an AS degree.)

### **BMKT 295 - Directed Study | 1-3 hours**

Prerequisite(s): Approval of the Dean of the School—A directed study involves individualized research into a selected topic chosen by the faculty adviser and the student.

### **BMKT 326 - Principles of Marketing | 3 hours**

A study of customer relationship management and the functions of marketing, including product, price, place, and promotion as they relate to consumers.

### **BMKT 327 - Consumer Behavior | 3 hours**

Prerequisite(s): BMKT 326—An analysis of the consumer decision-making process where behavioral science is combined with marketing theory to enable the marketer to understand and predict consumer behavior in the various stages of the buying decision. (Winter)

### **BMKT 328 - Sales Management | 3 hours**

Prerequisite(s): BMKT 326 or permission of instructor—An examination of the basic sales processes necessary to achieve organizational objectives and the professional techniques used in the management of the sales force ranging from planning-recruiting to day-to-day management. (Fall, even years)

### **BMKT 345 - Marketing Technology | 3 hours**

This course focuses on the technologies marketers use to implement strategic marketing programs with particular emphasis on the use of technology for marketing analytics, delivery of promotions, and customer relationship management programs. Students will learn fundamentals of desktop publishing applications, database programs, social networking, Web 2.0, as well as other cutting edge technology marketers utilize.

### **BMKT 375 - International Marketing | 3 hours**

Prerequisite(s): BMKT 326—An exploration of the rapidly expanding world of international marketing. Topics include joint ventures, partnerships, direct exporting, foreign subsidiaries, licensing, contract manufacturing, and direct investment. Doing business across cultural and national boundaries are examined in depth to gain an understanding of the nuances necessary to be successful with an international marketing venture. (Fall)

### **BMKT 410 - Service Marketing | 3 hours**

Prerequisite(s): BMKT 326—A study of the knowledge needed to implement strategies for quality service to provide companies a competitive advantage. The customer-focused management model includes strategies for increasing customer satisfaction and retention through the design and implementation of service strategies. Topics include customer expectations, service development and design, service delivery, management and measurement of service quality, service recovery, and the financial effect of service strategies. (Winter, odd years)

### **BMKT 423 - Promotional Strategy (SERV-2) | 3 hours**

Prerequisite(s): BMKT 326—An analysis of integrated marketing communications, with an emphasis on the role of advertising, promotion, direct marketing, and public relations. Topics include setting advertising objectives and budget, media strategy, creative strategy, and evaluating promotional effectiveness. Focus is on the design and management of a complete promotional strategy for an organization. (Winter, even years)



**BMKT 424 - Marketing Strategy | 3 hours**

Prerequisite(s): BMKT 326—A case study approach to the solving of major marketing problems of various organizations and the ability to formulate appropriate strategies in responding to the presented case problems. Lab fee 2 will be assessed for this course. (Winter)

**BMKT 465 - Topics in Marketing | 1-3 hours**

Prerequisite(s): Permission of the instructor—See course BMKT 265 for course description.

**BMKT 491 - Marketing Practicum | 1-3 hours**

Prerequisite(s): Junior or senior status and permission of a supervising professor. (Registration for this course and an agreement with a supervising professor must be completed prior to beginning the work experience)—A practicum consists of supervised volunteer/work experience in related fields of management on a part-time basis. The work may be done at various job sites. A minimum of 50 clock hours of work experience is required for each semester hour of credit. (Note: A maximum of 3 credit hours of practicum and/or internship may apply as an elective in the major.)

**BMKT 492 - Marketing Internship | 3 hours**

Prerequisite(s): Junior or senior status and permission of a supervising professor. (Registration for this course and an agreement with a supervising professor must be completed prior to beginning the work experience)—Students obtain on-the-job experience working under supervision at an ad agency, marketing department, marketing research company, wholesaler, retailer, or company sales department on a full-time basis. All hours must be completed on one job site. A minimum of 100 clock hours of work experience is required for each semester hour of credit. (Note: A maximum of 3 credit hours of practicum and/or internship may apply as an elective in the major.)

**BMKT 495 - Directed Study | 1-3 hours**

Prerequisite(s): Approval of the Dean of the School—See BMKT 295 for course description.

**BMKT 497 - Marketing Research | 3 hours**

Prerequisite(s): BMKT 326; BUAD 221 or MATH 215—A study of the role of research in marketing decision-making; research design, implementation, and analysis and interpretation of research findings. Students will do research for a real business organization, concluding with a research and marketing recommendation report to the sponsoring organization. (Winter)

**Broadcasting****BRDC 127 - Intro to Digital Storytelling | 3 hours**

Presents the fundamentals of shooting and editing video and still photographs, as well as recording audio. Students will learn basic principles and aesthetics of using digital cameras and sound equipment purposefully to tell stories that inform, promote, or inspire, laying a foundation for later coursework refining and applying these skills.

**BRDC 201 - Introduction to Electronic Media | 3 hours**

Provides an understanding of broadcasting and related industries. Basic theories and practices of radio, television, cable operations, and other electronic media are covered.

**BRDC 202 - Digital Audio Production | 3 hours**

An introduction to audio production, including use of microphones, digital media, non-linear audio editing, recording, mixing, and post-production. Oral communication emphasis includes instruction on announcing, interviewing, and other broadcast techniques. Lab fee 11 will be assessed for this course.

**BRDC 227 - Multi-Camera Production | 3 hours**

Prerequisite(s): BRDC 127—An introduction to the basics of producing both studio and multi-camera video programs. Students produce individual and group projects in the School's studio in Brock Hall. Emphasis also given to lighting, audio, and video editing. Lab fee 10 will be assessed for this course.

**BRDC 245 - Senior Project | 1 hour**

Prerequisite(s): Senior standing—This student-selected, school-approved project demonstrates the student's ability to perform in his/her major field. Students in this course meet with their supervising professor as needed. A written proposal for a project must be submitted to the advising professor by three weeks into the term. Lab fee 5 will be assessed for this course.

**BRDC 265 - Topics in Broadcasting | 1-3 hours**

Selected topics in broadcast and related areas presented in a classroom setting. This course may be repeated for credit.

**BRDC 291 - Practicum | 1-3 hours**

Prerequisite(s): Consent of instructor before arranging for practicum—Supervised work in a broadcast station or media production environment. At least 90 clock hours of work experience are required for each semester hour of credit. Procedures and guidelines are available from the School.

**BRDC 295 - Directed Study | 1-3 hours**

For students who want to do independent research and/or media production. Directed study topics will be selected with guidance from the instructor who will serve as a consultant to the student in carrying out the project.

**BRDC 314 - Broadcast News Writing (W) | 3 hours**

Prerequisite(s): BRDC 202; JOUR 205—Gathering information, interviewing, writing, and editing for the broadcast media. How to start, develop, and polish hard news and feature stories by writing to sound and pictures. Students write, copy, and produce sound documentaries for the University radio station and Adventist World Radio. Lab fee 7 will be assessed for this course.

**BRDC 327 - Advanced Field Production | 3 hours**

Prerequisite(s): BRDC 227—An advanced video production class with a focus on digital video acquisition, non-linear editing, and the production of television graphics. Students will produce a series of single-camera video projects, utilizing non-linear editing and digital effects programs. This course will also include an introduction to video streaming on the Web. Lab fee 10 will be assessed for this course.

**BRDC 391 - Practicum | 1-3 hours**

Prerequisite(s): Consent of instructor before arranging for practicum—See BRDC 291 for course description.

**BRDC 417 - Media Management and Ministry | 3 hours**

Prerequisite(s): BRDC 201—An analysis of the challenges involved in planning and operating electronic media including personnel, programming, business ethics, community relations, sales, FCC policies and promotion. Students interview media managers during field trips to area radio, TV, and cable operations. Added emphasis on Christian broadcasting and WSMC-FM, the University's 100,000-watt radio station. Case study method is involved. (Winter, even years)

**BRDC 426 - TV News Reporting and Performance | 3 hours**

Prerequisite(s): BRDC 314, BRDC 227/BRDC 327 or COMM 315—Students become reporters, videographers, producers, and anchors for a weekly newscast produced in the School's Brock Hall studio. Students learn basics of visual storytelling as they use digital equipment to shoot and edit packages for broadcast. In addition, each student is required to create a resume (tape) essential for getting a first job. Emphasis on visual storytelling and performance skills. Includes lectures and one three-hour lab per week. Lab fee 10 will be assessed for this course.

**BRDC 445 - Senior Project | 1 hour**

Prerequisite(s): Senior standing—See BRDC 245 for course description. Lab fee 5 will be assessed for this course.

**BRDC 465 - Topics in Broadcasting | 1-3 hours**

See BRDC 265 for course description.

**BRDC 492 - Broadcast/Media Production Internship | 3 hours**

Prerequisite(s): Completion of half the requirements for a major or minor in broadcast journalism or media production and School approval before arranging for internship—Students work at a broadcast station or media production facility to obtain on-the-job experience, preferably during an 8 to 12 week period the summer between the junior and senior year when no other college course is taken. At least 300 clock hours of work experience are required. Procedures and guidelines are available from the School.

**BRDC 495 - Directed Study | 1-3 hours**

See BRDC 295 for course description.

## **Business Administration**

**BUAD 126 - Introduction to Business (I-5) | 3 hours**

A course designed to provide a basic understanding of the American business system and free enterprise concepts. Business practices, business terminology and contemporary business issues are covered. Students who have 18 or more hours of credit in business courses are ineligible to take this course for credit.

**BUAD 128 - Personal Finance (I-5) | 3 hours**

A course in basic economic concepts and business terminology and practices designed to provide the techniques to manage personal finances. Budgeting, consumerism, insurance, home ownership, and investments are included in the topics covered.

**BUAD 217 - Business-Computer Concepts and Applications (I-2b, I-2c) | 3 hours**

This course examines current computer-based technologies as effective tools to facilitate problem-solving and decision-making in business contexts. Students will be exposed to issues involving the professional, ethical, legal, and social use of technology and the Internet. Students gain hands-on experience using and managing office applications including word processing, spreadsheets, database, and other document management software.

**BUAD 221 - Business Statistics | 3 hours**

The emphasis is on applied statistics as a tool for management decision-making. Topics include: descriptive statistics, elementary probability, sampling, hypothesis testing, inferences, correlation and regression, time series analysis, forecasting, variance analysis, and decision theory.

**BUAD 233 - Introduction to the Nonprofit Sector (SERV-2) | 3 hours**

This course offers the student an overview of the development and current status of the nonprofit sector in the United States with specific focus on youth and human service agencies. Students will study the unique philosophical, financial, and administrative qualities of this rapidly growing sector of society, as they observe and assess local nonprofit agencies at work.

**BUAD 265 - Topics in Business | 1-3 hours**

Prerequisite(s): Permission of the instructor—Selected topics designed to meet the needs or interests of students in specialty areas of business and management. This course may be repeated for credit with permission.

**BUAD 288 - Seminar in Business Administration | 1 hour**

Includes the Eugene Anderson Lecture Series in business. Top men and women in their field present lectures in insurance, real estate, finance, retailing, production management. Attendance at ten lectures is required. This course may be repeated for credit. (Winter)

**BUAD 294 - Business Administration International Study Tour | 1-3 hours**

A trip designed to acquaint the student with important international business centers and facilities along with cultural experiences unique to the country. Various types of organizations will be visited such as financial, manufacturing, merchandising, educational, and cultural organizations. Lab fee 31 will be assessed for this course. An additional fee may be required to cover additional travel expenses.

**BUAD 295 - Directed Study | 1-3 hours**

Prerequisite(s): Approval of the Dean of the School—A directed study involves individualized research into a selected topic chosen by the faculty adviser and the student.

**BUAD 296 - Business Administration Study Tour | 1 hour**

A trip designed to acquaint the student with important large business centers and facilities. Focus will be on financial, merchandising, advertising, and cultural organizations. Lab fee 19 will be assessed for this course. An additional fee may be required to cover additional travel expenses.

**BUAD 310 - Business Communications (W) | 3 hours**

Prerequisite(s): COMM 135; ENGL 101 - ENGL 102—Provides students with a theoretical and practical framework for understanding and conducting effective oral and written communication. Special emphasis on business letter writing, report development, presentation delivery, resume writing, and interviewing skills. Lab fee 4 will be assessed for this course.

**BUAD 339 - Business Law | 3 hours**

A course designed to study the nature and social functions of law including social control through law and the law of commercial transactions (uniform commercial code) and business organizations. Contracts, the law of commercial transactions (UCC), business organizations, torts, agency, strict liability, and property are covered in depth. Evolution of legal trends are also noted.

**BUAD 358 - Ethical, Social, and Legal Environment of Business (W) | 3 hours**

A study of how business should operate within the ethical, social, legal, and political environment, and how individuals in leadership should relate to various social and ethical problems.

**BUAD 412 - Preparing to Meet the Firms | 1 hour**

This course is made up of a series of topics presented in a seminar setting to provide students with necessary tools to actively pursue and acquire internships and jobs. Topics will include but are not limited to: Résumés, Networking, Corporate Climate, Interviewing, Dress, Portfolios, Company Research, Eti-

quette. Besides listening to guest presentations, opportunities will exist to interact with guest lecturers and professors about thoughts and theories regarding the area of job acquisition. (Should be taken in Junior year of study). (Winter)

**BUAD 465 - Topics in Business | 1-3 hours**

Prerequisite(s): Permission of the instructor—See BUAD 265 for course description.

**BUAD 488 - Seminar in Business Administration | 1 hour**

See BUAD 288 for course description.

**BUAD 490 - International Semester | 0 hours**

Lab fee for the international semester abroad. Lab fee 33 will be assessed for this course.

**BUAD 491 - Business Practicum | 1-3 hours**

Prerequisite(s): Junior or senior status and permission of a supervising professor. (Registration for this course and an agreement with a supervising professor must be completed prior to beginning the work experience)—A practicum consists of supervised volunteer/work experience in related fields of accounting on a part-time basis. The work may be done at various job sites. A minimum of 50 clock hours of work experience is required for each semester hour of credit. (Note: A maximum of 3 credit hours of practicum and/or internship may apply as an elective in the major.)

**BUAD 492 - Business Internship | 1-3 hours**

Prerequisite(s): Junior or senior status and permission of a supervising professor. (Registration for this course and an agreement with a supervising professor must be completed prior to beginning the work experience)—An internship consists of on-the-job experience working under supervision on a full-time basis. All hours must be completed on one job site. A minimum of 100 clock hours of work experience is required for each semester hour of credit. (Note: A maximum of 3 credit hours of practicum and/or internship may apply as an elective in the major.)

**BUAD 493 - International Business Communications (W) | 3 hours**

Prerequisite(s): COMM 135; ENGL 101 - ENGL 102—Provides students with a theoretical and practical framework for understanding and conducting effective oral and written communication in an international business environment. Special emphasis on business letter writing, report development, presentation delivery, resume writing, and interviewing skills within a multicultural context (face-saving, team decisions, non-verbal communication and related language issues, geography, religion, education, history, and politics). This course may substitute for the required business core class BUAD 310 Business Communications.

**BUAD 494 - Business Administration International Study Tour | 1-3 hours**

See BUAD 294 for course description. Lab fee 31 will be assessed for this course.

**BUAD 495 - Directed Study | 1-3 hours**

Prerequisite(s): Approval of the Dean of the School—See BUAD 295 for course description.

**BUAD 496 - Business Administration Study Tour | 1 hour**

See BUAD 296 for course description. Lab fee 19 will be assessed for this course.

**BUAD 497 - Business Research | 3 hours**

Prerequisite(s): BUAD 221 or MATH 215; MGNT 334—This course permits students to apply principles of research and statistical analysis of data leading to the completion of a research project.

## Chemistry

**CHEM 107 - Chemistry of Everyday Life (I-4b) | 3 hours**

Prerequisite(s): A minimum Mathematics ACT score of 17 or SAT score of 420 or a minimum grade of “C” in MATH 080 or MATH 116—An introductory course that uses a “hands-on” approach to teach the basic principles of chemistry (including the use of basic scientific instruments) applied to everyday life. Topics may include forensic science, household chemicals, drugs (prescription, over-the-counter, or illicit), hazards and risks, food chemistry, polymers, and cosmetics. This course does not apply to a major or minor in Chemistry. (Fall, Winter)

**CHEM 111 - Survey of Chemistry I (I-4b) | 3 hours**

Prerequisite(s): A minimum Mathematics ACT score of 17 or SAT score of 420 or a minimum grade of “C” in MATH 080 or MATH 116—A survey course designed to familiarize the student with the basic principles of inorganic chemistry. Does not apply to a major or minor in Chemistry. Three hours of lecture each week. (Fall, Winter, Summer)

**CHEM 112 - Survey of Chemistry II | 3 hours**

Prerequisite(s): Completion of CHEM 111 with a grade of C- or higher—A survey course designed to familiarize the student with the basic principles of organic and biochemistry. Does not apply to a major or minor in Chemistry. Three hours of lecture each week. (Fall, Winter)

**CHEM 113 - Survey of Chemistry Laboratory I | 1 hour**

Prerequisite(s): Previous or concurrent enrollment in CHEM 111—Laboratory material designed to illustrate the material in CHEM 111. Does not apply to a major or minor in Chemistry. Two and one-half hours of laboratory each week. Lab fee 1 will be assessed for this course. (Fall)

**CHEM 114 - Survey of Chemistry Laboratory II | 1 hour**

Prerequisite(s): Previous or concurrent enrollment in CHEM 112—Laboratory material designed to illustrate the material in CHEM 112. Does not apply to a major or minor in Chemistry. Two and one-half hours of laboratory each week. Lab fee 1 will be assessed for this course. (Winter)

**CHEM 151 - General Chemistry (I-4b) | 4 hours**

Prerequisite(s): A minimum Mathematics ACT score of 19 or SAT score of 460, a minimum grade of "C" in MATH 116—CHEM 151 is the first portion of a two-semester course that is an introduction to the fundamental laws and accepted theories of chemistry. Areas to be studied include stoichiometry, atomic and molecular structure and bonding, states of matter, and thermochemistry. It is expected that students will have successfully completed a high school chemistry course or CHEM 111 before enrolling in CHEM 151. Three hours of lecture, one hour of recitation, and three hours of laboratory each week.

**CHEM 152 - General Chemistry (I-4b) | 4 hours**

Prerequisite(s): Completion of CHEM 151 with a grade of C- or higher—CHEM 152 is the second portion of a two-semester course that continues the introduction to the fundamental laws and accepted theories of chemistry. Areas to be studied include chemical equilibrium, kinetics, thermodynamics, acids and bases, oxidation-reduction and electrochemistry, descriptive chemistry, and nuclear chemistry. Three hours of lecture, one hour of recitation, and three hours of laboratory each week.

**CHEM 205 - Tutoring Chemistry (SERV-2) | 1 hour**

Prerequisite(s): Must be a chemistry major; successful completion of CHEM 152—In this course, students will gain knowledge of current research that provides information about learning and learning styles. They will learn and demonstrate good pedagogical tools that promote learning in chemistry. They will be trained with effective one on one teaching methodologies such as Socratic dialogue, concept modeling and scaffolding. They will also be instructed in methods that will help identify common chemical misconceptions that cause the learner difficulty with chemistry. Active tutoring, totaling 15 hours during the semester, will allow the tutors to use the identification tools and instructional methods mastered so that they can become adept at working with all types of learners and subject material. This service learning training equips each student with lifelong tools that may be used to provide community service as an effective tutor.

**CHEM 295 - Directed Study | 1-3 hours**

Prerequisite(s): Successful completion of CHEM 152—A course emphasizing individual directed study by a student who wishes to explore an area of chemistry not listed in the regular course offerings.

**CHEM 305 - Tutoring Chemistry (SERV-2) | 1 hour**

Prerequisite(s): Must be a chemistry major; successful completion of CHEM 312—See CHEM 205 for course description.

**CHEM 311 - Organic Chemistry | 4 hours**

Prerequisite(s): Completion of CHEM 152 with a grade of C- or higher—CHEM 311 is the first portion of a two-semester course designed to provide the student with a comprehensive introduction to the fundamental principles of organic chemistry and the behavior of organic molecules. It introduces organic molecules and functional groups, the tools used to purify and structurally characterize these molecules, the chemical principles governing their stability and reactivity, and the application of these principles to organic synthesis. The laboratory portion of the course provides practical experience in the application of this knowledge and develops the basic laboratory techniques essential for the synthesis and purification of organic compounds. Three hours of lecture, one hour of recitation, and three hours of laboratory each week. Lab fee 2 will be assessed for this course.

**CHEM 312 - Organic Chemistry | 4 hours**

Prerequisite(s): Completion of CHEM 311 with a grade of C- or higher—CHEM 312 is the second portion of a two-semester course designed to provide the student with a comprehensive introduction to the fundamental principles of organic chemistry and the behavior of organic molecules. The main topics covered are UV-Vis and mass spectrometry; aromatic compounds and their substitution reactions; additions to and substitutions at the carbonyl functionality; enolates and other carbon nucleophiles; chemistry of organic radicals; pericyclic reactions; and carbohydrates and amino acids. The laboratory

portion of the course provides practical experience in the application of this knowledge and develops the basic laboratory techniques essential for the synthesis and purification of organic compounds. Three hours of lecture, one hour of recitation, and three hours of laboratory each week. Lab fee 2 will be assessed for this course.

**CHEM 315 - Quantitative Analysis | 4 hours**

Prerequisite(s): Completion of CHEM 152 with a grade of C- or higher—A study of equilibria as it applies to analytical chemistry. Techniques of determinations, sampling, handling of data, and the detailed chemistry involved are studied in terms of quantitative determinations. Three hours of lecture and four hours of laboratory each week. Lab fee 2 will be assessed for this course. (Winter)

**CHEM 321 - Instrumental Analysis | 4 hours**

Prerequisite(s): Completion of CHEM 315 with a grade of C- or higher—A study of the theories, techniques, and instruments involved in spectrometry, chromatography, and electrochemistry. Three hours of lecture and four hours of laboratory each week. (Fall, alternate years)

**CHEM 361 - Biochemistry I | 4 hours**

Prerequisite(s): Completion of CHEM 312 and BIOL 151 with a grade of C- or higher or consent of instructor—A study of the basic principles of the chemistry of living organisms. Topics presented include the structure, properties, and functions of carbohydrates, lipids, nucleic acids, and proteins; an introduction to bioenergetics; enzyme kinetics and mechanisms; and carbohydrate, lipid, and energy metabolism. Four hours of lecture each week. Lab fee 2 will be assessed for this class. (Fall)

**CHEM 362 - Biochemistry II | 3 hours**

Prerequisite(s): Completion of CHEM 361 with a grade of C- or higher—A continued study of the basic principles of the chemistry of living organisms. Topics presented include photosynthesis, protein and nucleic acid metabolism, and information pathways. Three hours of lecture each week. Lab fee 2 will be assessed for this course. (Winter)

**CHEM 363 - Biochemistry Laboratory | 1 hour**

Prerequisite(s): Completion of CHEM 315 and CHEM 361 with a grade of C- or higher—An introduction to the fundamental techniques used in the study of biochemical systems, including the separation and analysis of biological molecules, enzyme kinetics, and metabolism studies. Requires computer data analysis. Four hours of laboratory each week. Lab fee 2 will be assessed for this course. (Winter)

**CHEM 385 - Chemistry Seminar | 1 hour**

Prerequisite(s): Completion of CHEM 312 and COMM 135 with a grade of C- or higher—An introduction to the use of chemical literature as a source of information and the techniques involved in making scientific presentations. Oral and written presentations are made on specific topics in chemistry. These presentations must utilize Power Point and word processing skills. It is recommended that this course be taken in the junior year, prior to taking CHEM 497. (Winter)

**CHEM 411 - Physical Chemistry I (W) | 4 hours**

Prerequisite(s): Completion of CHEM 152, MATH 191; PHYS 212 or PHYS 222 with a grade of C- or higher—A study of the fundamental concepts of chemical thermodynamics, chemical equilibria, properties of pure substances and mixtures, phase changes, kinetic theory, reaction kinetics, and dynamics. May also include an introduction to quantum mechanics. Three hours of lecture and four hours of laboratory each week. (Fall)

**CHEM 415 - Physical Chemistry II | 3 hours**

Prerequisite(s): Completion of CHEM 152, MATH 315; PHYS 212 or PHYS 222 with a grade of C- or higher—A study of quantum chemistry. Areas to be studied include: wave mechanics, boundary problems, the Schroedinger equation and its solution for one electron atoms and extension to multi-electron systems, chemical bonding, and atomic and molecular spectroscopy. Three hours of lecture each week. (Winter, alternate years)

**CHEM 425 - Advanced Organic Chemistry | 3 hours**

Prerequisite(s): Completion of CHEM 312 with a grade of C- or higher—This course offers a more in-depth study of topics in organic chemistry. The student will learn name reactions used in organic research, demonstrate excellence in proposing reaction mechanisms, design synthetic routes for target organic compounds; apply knowledge or organic chemistry to real life situations, learn to do literature searches; and use critical thinking skills to solve problems independently. (Winter, alternate years)

**CHEM 435 - Inorganic Chemistry | 4 hours**

Prerequisite(s): Completion of CHEM 312 with a grade of C- or higher; completion of CHEM 411 is recommended—A study of structures and chemical properties of inorganic compounds. Particular focus is placed on the description of chemical bonds between elements, the effects of bond properties on the structures, reactivity, and characterization of these compounds, and the periodic trends observed in

the properties of the elements. Three hours of lecture and four hours of laboratory each week. (Winter, alternate years)

**CHEM 465 - Topics in Chemistry | 1-4 hours**

Selected topics presented in a formal classroom setting in specialty areas of chemistry not covered in regular courses. May be repeated for credit for different topics.

**CHEM 495 - Directed Study | 1-3 hours**

Prerequisite(s): Completion of CHEM 152 with a grade of C- or higher—See CHEM 295 for course description.

**CHEM 497 - Introduction to Research (W) | 1-2 hours**

Prerequisite(s): Junior or senior chemistry major who has successfully completed CHEM 312 and CHEM 315 with a grade of C- or higher—Individual or group research under the direction of the chemistry faculty. One hour of lecture and four hours of laboratory each week for each hour of credit. Lab fee 4 will be assessed for this course. May be repeated for credit up to a maximum of three credits.

## Communication

**COMM 103 - Introduction to Mass Communication | 3 hours**

Overview of the development and characteristics of mass media, with emphasis on media in the United States including newspapers, radio, television, photography, film, sound recording, books, magazines, advertising, public relations, and new media technology. Attention is given to theories of communication and how to be a critical and discriminating consumer of mass media.

**COMM 135 - Introduction to Public Speaking (I-1c) | 3 hours**

Preparing, presenting, listening to, and critiquing speeches of various kinds—particularly informative and persuasive ones—with emphasis on the selection and organization of supporting material, reasoning, methods of securing interest, persuasive strategies, and elements of delivery. (Fall, Winter, SmartStart)

**COMM 230 - Intro to Acting | 3 hours**

This introductory level course is designed to present fundamental acting techniques to students unfamiliar with the theater. In addition, the student will gain a better understanding of theater as an art form, as well as learn the basic vocabulary specific to theater and acting.

**COMM 240 - Communication Theory | 3 hours**

This course offers the conceptual foundation for studying human communication. It offers a survey of the major theories of communication and rhetoric.

**COMM 265 - Topics | 1-3 hours**

Selected topics in speech and related areas presented in a classroom setting. Subjects covered will determine general education credit status. This course may be repeated for credit.

**COMM 291 - Communication Practicum | 1-3 hours**

Prerequisite(s): Consent of instructor before arranging for practicum—Supervised work experience in communication. At least 90 clock hours of work experience are required for each semester hour of credit. Work experience may be completed in the United States or overseas. Procedures and guidelines are available from the School. Partial petition waiver will apply.

**COMM 295 - Directed Study | 1-3 hours**

The content of this course will be adjusted to meet the particular needs of the student. Open only to students approved by the School dean in consultation with the prospective instructor. This course may be repeated for credit.

**COMM 315 - Scriptwriting (W) | 3 hours**

This course provides an introduction to scriptwriting in a variety of forms. Students will be introduced to and get experience in the style and preparation of scripts for television, corporate video production, documentary and narrative film, motion pictures, animation, radio, and stage plays.

**COMM 326 - Film Evaluation (S-3a) (W) | 3 hours**

The primary goal of this class is to help each student develop a set of criteria for critically evaluating films. Besides regular assigned reading, class activities include discussion of the contributions films make to our culture, studying how films are made, and how to write about films. Films are screened as a part of the class and weekly evaluation papers based on the screened film are expected.

**COMM 330 - Intercultural Communication (I-3b) (W) | 3 hours**

This course deals with communication and culture as they relate to perception and values, language, nonverbal communication, ethics, intercultural relationships, sociocultural, psychocultural, and environmental influences on the processes of communication.

**COMM 336 - Interpersonal Communication | 3 hours**

Introduces students to the theory, research, and practice of communication in personal relationships. Topics include listening, verbal and nonverbal communication, emotions, conflict management, and the development and maintenance of effective personal relationships. This course utilizes readings and learning activities as well as out-of-class activities to help students understand and apply interpersonal communication principles.

**COMM 340 - Group Dynamics and Leadership | 3 hours**

Prerequisite(s): COMM 135—This course will explore the dynamics of small group interaction and promote cooperation rather than competition in the decision-making process. Students will gain an understanding of different communication and leadership styles, discuss gender issues, learn how to direct and motivate others, and productively manage conflict. This class is taught using lecture and hands-on application of concepts. (Winter, odd years)

**COMM 391 - Communication Practicum | 1-3 hours**

Prerequisite(s): Consent of instructor before arranging for practicum—See COMM 291 for course description.

**COMM 397 - Communication Research (W) | 3 hours**

Introduces students to scientific inquiry and the basic research techniques of advertising, communication, journalism, and public relations. Uses interdisciplinary approach to explain research methodology and to evaluate the strengths, weaknesses, and limitations of different research designs. Helps students understand the importance of the development and exchange of scholarly information. This class should be completed before taking 400 level classes in the School of Journalism and Communication.

**COMM 406 - Persuasion and Propaganda (W) | 3 hours**

Historical origin and contemporary uses of propaganda; the concept of public opinion; motivational tools and techniques to achieve public response; characteristics of public and how they are influenced.

**COMM 415 - Portfolio and Career | 1 hour**

A capstone course emphasizing professional skills, ethics, portfolios, career planning and graduate school exploration. Specific attention given to resume preparation, creation of a digital portfolio, interviewing and job search skills.

**COMM 465 - Topics | 1-3 hours**

See COMM 265 for course description.

**COMM 492 - Communication Internship | 1-3 hours**

Prerequisite(s): Completion of at least half the requirements for a major or minor in communication studies and School approval—Students work off-campus in a professionally supervised role in the field of communication to obtain on-the-job experience during the school year or during the summer. For each hour of academic credit, 100 clock hours of work experience are required. Detailed procedures and guidelines are available from the School.

**COMM 495 - Directed Study | 1-3 hours**

See COMM 295 for course description.

**Cooperative Education****COOP 265 - Cooperative Education | 1-6 hours**

This course allows students to receive credit for work experience. The assignments must be a specific program designed as an internship with an agreed upon description of the type of work, arrangements for supervision, and methods of evaluation. One hour of credit requires a minimum of 50 work hours. A maximum of six credit hours of cooperative education may be applied to a degree.

**COOP 465 - Cooperative Education | 1-6 hours**

This course allows students to receive credit for work experience. The assignments must be a specific program designed as an internship with an agreed upon description of the type of work, arrangements for supervision, and methods of evaluation. One hour of credit requires a minimum of 50 work hours. A maximum of six credit hours of cooperative education may be applied to a degree.



## Hardware and Embedded Systems

### CPHE 200 - Digital Logic and Design | 4 hours

Digital design principles and implementation of digital systems. Number systems, Boolean algebra, architectural concepts, combinational and sequential logic, combinational datapath elements, memory, I/O design, CAD tools, project design methodologies, and logic synthesis. The objective of this course is to prepare the essential and rudimentary basis for students to become the next generation of digital circuit designers. Three hours of lecture and three hours of laboratory each week. Lab fee 4 will be assessed for this course. (Winter)

### CPHE 222 - Organization, Architecture and Assembly Language | 4 hours

Prerequisite(s): CPHE 200; CPTR 124—Basic machine organization and architecture. Processor components, instruction sets, memory types and hierarchy. Introduction to data representation, instruction formats, addressing techniques, assembly language, pipelining, and I/O bus architectures. Three hours of lecture and three hours of laboratory each week. (Fall)

### CPHE 265 - Topics in Embedded Systems | 1-3 hours

Topics selected from areas of embedded systems not covered in other courses. May be repeated with permission.

### CPHE 295 - Directed Study in Hardware and Embedded Systems | 1-3 hours

Prerequisite(s): Permission of instructor and school dean—Individual or group work adjusted to meet particular needs of computer science students. Formal written report required. May be repeated for credit up to six hours.

### CPHE 310 - Introduction to Signal Processing | 4 hours

Prerequisite(s): MATH 192—Introduction to signal processing for discrete-time and continuous-time signals. Filtering, frequency response, Fourier transform, Z transform, and sampling. Laboratory emphasizes computer-based signal processing. Three hours of lecture and three hours of laboratory each week. (Fall, odd years)

### CPHE 320 - Circuit Analysis | 4 hours

Prerequisite(s): PHYS 212, PHYS 214—Basic concepts of DC and AC circuit theory and analysis. Basic concepts of circuit behavior, circuit analysis theorems and methods, RLC circuits and introduction to microelectronics. Introduction to test and measurement instrumentation, experimental techniques for analysis and characterization of electrical circuits, and technical writing and documentation skills. Three hours of lecture and three hours of laboratory each week. (Winter, even years)

### CPHE 380 - Microcontroller Design | 4 hours

Microcontroller structure, instruction set and addressing modes. Introduction to embedded system development, microcontroller resource allocation, assembly and C language programming, interrupt handlers, real-time operation, timing and basic communication interfaces. Three hours of lecture and three hours of laboratory each week. Lab fee 5 will be assessed for this course. (Fall, even years)

### CPHE 410 - Computer Interfacing | 4 hours

Prerequisite(s): CPHE 380—Fundamentals of computer interfacing and embedded system development. Processors, chipsets, commercial busses, and I/O devices for high-end embedded systems. Embedded and real-time operating systems, device drivers, multitasking, instruction set architectures, DMA, common bus standards, and current I/O interfaces. The laboratory component emphasizes a team design experience. Three hours of lecture and three hours of laboratory each week. Lab fee 7 will be assessed for this course. (Winter, odd years)

### CPHE 465 - Topics in Embedded Systems | 1-3 hours

Topics selected from areas of embedded systems not covered in other courses. May be repeated with permission.

### CPHE 495 - Directed Study in Hardware and Embedded Systems | 1-3 hours

Prerequisite(s): Permission of instructor and school dean—See CPHE 295 for course description.

## Information Systems

### CPIS 265 - Topics in Computer Information Systems | 1-3 hours

Prerequisite(s): Permission of the instructor—Topics selected from areas of computer information systems not covered in other courses. May be repeated with permission.

**CPIS 295 - Directed Study in Computer Information Systems | 1-3 hours**

Prerequisite(s): Permission of instructor and school dean—Individual or group work adjusted to meet particular needs of computer information systems students. Formal written report required. May be repeated for credit up to six hours.

**CPIS 443 - Software Evaluation | 3 hours**

Prerequisite(s): CPTR 124—This course focuses on methods for evaluating popular application software packages. Performance and feature evaluation, reliability, usability, maintainability. Security, licensing, and human computer interaction issues. A major project is required. (Fall)

**CPIS 465 - Topics in Computer Information Systems | 1-3 hours**

Prerequisite(s): Permission of the instructor—See CPIS 265 for course description.

**CPIS 495 - Directed Study in Computer Information Systems | 1-3 hours**

Prerequisite(s): Permission of instructor and school dean—See CPIS 295 for course description.

**Computer Technology****CPTe 100 - Computer Concepts (I-2b) | 1 hour**

Important computer competencies including understanding how the history of computers and the Internet can aid in our capability to prepare for future changes in computing technology, the ability to appreciate the potential and limitations of computers and the Internet, how to maintain a “healthy” personal computer system, and how to use computers and the Internet safely, responsibly, and effectively. Does not apply on a major or minor in Computing.

**CPTe 105 - Introduction to Word Processing (I-2c) | 1 hour**

Prerequisite(s): A typing course or permission of instructor—Creating, editing and formatting documents; creating multiple-page reports; simple desktop publishing; mail merge; creating styles, outlines, tables, table of contents, form letters, mailing labels, and web pages; collaborating with others on a document. Does not apply on a major or minor in Computing.

**CPTe 106 - Introduction to Spreadsheets (I-2c) | 1 hour**

Using spreadsheet software to manage data, use formulas and functions, develop professional-looking spreadsheets, create charts and graphs, manage lists, work with multiple spreadsheets and files, use editing and web tools, and develop spreadsheet applications. Does not apply on a major or minor in Computing.

**CPTe 107 - Introduction to Database (I-2c) | 1 hour**

Using database software to manage data, create and manage a database, query a database, create forms and reports, create advanced queries, create custom forms, create custom reports, integrate the database with the Web and with other software applications. Does not apply on a major or minor in Computing.

**CPTe 109 - Presentation Technology (I-2c) | 1 hour**

An investigation of various presentation software packages and their use in making effective presentations. General presentation design, graphics for presentations, use of animation, video and sound in presentations, and display technology. Students will design, create, enhance and use electronic overheads, outlines, speaker’s notes, and audience handouts. Does not apply on a major or minor in Computing.

**CPTe 110 - Introduction to Web Development (I-2c) | 1 hour**

Web development using HTML. Designing and developing web sites using web site creation software. Maintaining and updating web sites.

**CPTe 212 - Web Programming | 3 hours**

Prerequisite(s): CPTR 124—Pre- or co-requisite: JOUR 242 or CPTe 110 or permission of instructor—Programming for e-commerce using the World Wide Web. Application architecture, languages, scripting tools, HTML editors, Web design packages and authoring tools. (Winter)

**CPTe 230 - Windows Administration | 3 hours**

Prerequisite(s): CPTe 212 or CPTR 215—This is a practical course in managing Windows servers and clients. Topics may include Active Directory Domain management, organizational structure, group policies, PowerShell (and/or other scripting tools), user management, availability issues, logs, IIS, deploying pre-built web services, imaging and virtualization.

**CPTe 254 - UNIX Systems Administration | 3 hours**

Prerequisite(s): CPTe 212 or CPTR 215—Installation and management of UNIX operating systems in the business environment. Use of common UNIX tools for support and administration. Comparison of common UNIX variants. Two hours of lecture and three hours of lab each week. (Fall)

**CPTe 265 - Topics in Computer Technology | 1-3 hours**

Prerequisite(s): Permission of the instructor—Topics selected from areas of computer technology not covered in other courses. May be repeated with permission.

**CPTe 295 - Directed Study in Computer Technology | 1-3 hours**

Prerequisite(s): Permission of instructor and school dean—Individual or group work adjusted to meet particular needs of technical computer support students. Formal written report required. May be repeated for credit up to six hours.

**CPTe 316 - Application Software Support | 3 hours**

Prerequisite(s): Admission to the School of Computing—This course focuses on methods of mastering applications software in order to be able to provide technical support. Practice in mastering a wide range of software applications. Software troubleshooting. Interpersonal issues relative to giving support to non-technical personnel. Mentoring and software training issues. (Winter)

**CPTe 433 - Network Administration | 3 hours**

Prerequisite(s): Admission to the School of Computing; CPTR 328 or permission of instructor—Network administration to support internal operations and e-commerce. The role of the supervisor in managing user accounts, file systems, directories, security systems, resources, etc. Managing backups, printers, application, and operating system updates and Internet connections. (Winter)

**CPTe 440 - Programming and Scripting for Administration | 3 hours**

Prerequisite(s): CPTe 254, CPTe 230—Scripting languages, language hosts and libraries, development environments. SNMP, multi-system integration, integrating operational information sources, dashboards.

**CPTe 465 - Topics in Computer Technology | 1-3 hours**

Prerequisite(s): Permission of the instructor—See CPTe 265 for course description.

**CPTe 495 - Directed Study in Computer Technology | 1-3 hours**

Prerequisite(s): Permission of instructor and school dean—See CPTe 295 for course description.

**Computer Science****CPTR 110 - Computational Thinking for the Sciences (I-2b, I-2c) | 3 hours**

Prerequisite(s): MATH ACT  $\geq 16$  or SAT  $\geq 390$ , or MATH 080—A comprehensive introduction to the many areas of computing in the sciences including algorithmic problem solving, general computer concepts, and scientific computing tools. Introduction to the key issues and concepts throughout the field of computing. Social and ethical issues in computing. Experience using spreadsheets and mathematical modeling tool in the context of various scientific disciplines.

**CPTR 124 - Fundamentals of Programming (S-3d) | 4 hours**

Prerequisite(s): Math ACT  $\geq 22$  or SAT  $\geq 520$ , or MATH 116, or permission of instructor—Control structures, data types, data representation, compiling, debugging, modularity, and standard programming algorithms are introduced, using an object-oriented language. Three hours of lecture and three hours of laboratory each week.

**CPTR 209 - Introduction to Software Engineering | 4 hours**

Prerequisite(s): CPTR 215—Techniques for the management, development and maintenance of large complex software systems. Life cycle issues, requirements and domain analysis, architecture and formal and human-computer interaction design, implementation, testing, and quality assurance. Netcentric computing. Team projects. Three hours of lecture and three hours of laboratory each week. (Winter)

**CPTR 215 - Fundamentals of Software Design | 4 hours**

Prerequisite(s): CPTR 124—Introduction to software design methods. Elementary data structures. Development of reliable, modifiable programs. Three hours of lecture and three hours of laboratory each week. (Winter)

**CPTR 265 - Topics in Computer Science | 1-3 hours**

Prerequisite(s): Permission of the instructor—Topics selected from areas of computer science not covered in other courses. Possible topics include: neural networks, information retrieval, distributed computing, advanced compiler design, computer architecture, advanced operating systems, systems programming, visualization of data, computer simulation, and parallel computing. May be repeated with permission.

**CPTR 292 - Computing Internship | 1-3 hours**

Prerequisite(s): Consent of instructor or school dean—Individual or group work in current computing technologies. No more than three hours will count towards a computing major or minor. May be repeated for credit up to six hours.

**CPTR 295 - Directed Study in Computer Science | 1-3 hours**

Prerequisite(s): Permission of instructor and school dean—Individual or group work adjusted to meet particular needs of computer science students. Formal written report required. May be repeated for credit up to six hours.

**CPTR 318 - Data Structures and Algorithms | 3 hours**

Prerequisite(s): Admission to the School of Computing; CPTR 215; MATH 120 or equivalent. Recommended: MATH 191—Advanced data structures including heaps, hash tables, height-balanced trees, and graphs. Techniques for data abstraction. Algorithms that have application in many areas of computer science including searching, sorting, and graph algorithms. Recursive algorithms. Analysis of algorithms including time and space complexity analysis. Criteria for choosing data structures and algorithms.

**CPTR 319 - Database Management Systems | 3 hours**

Prerequisite(s): CPTe 212 or CPTR 215—Introduction to database management systems, including data modeling, query languages and processing, database design, data integrity and security. Issues related to distributed database systems, object-oriented database systems, and legacy database systems are also discussed. (Winter)

**CPTR 328 - Principles of Networking | 3 hours**

Prerequisite(s): CPTR 110; MATH 120—Principles and issues related to computer networking and data communications. Network topologies, network protocols, network models, routing, congestion control, Internet working, security and privacy. (Fall)

**CPTR 365 - Operating Systems | 3 hours**

Prerequisite(s): Admission to the School of Computing; CPHE 222; CPTR 318—Detailed study of operating system concepts. Process management, scheduling, time slicing, concurrency, mutual exclusion, semaphores, resource management, memory mapping, virtual systems, mass storage, file systems, and security. Case studies of operating systems. (Fall)

**CPTR 405 - Organization of Programming Languages | 3 hours**

Prerequisite(s): CPTR 215; CPHE 222. Recommended: CPTR 318—Computer language definition via formal syntax and semantics. Design and implementation issues of features found in most programming languages but including some features found only in modern programming languages. Programming language paradigms. (Winter, even years)

**CPTR 415 - Compiler Construction | 3 hours**

Prerequisite(s): CPHE 222; CPTR 318; MATH 280—Principles and techniques of lexical analysis, parsing, semantic analysis, code generation, and optimization. Students will be required to design and implement a functional compiler for a given programming language. (Winter, even numbered years)

**CPTR 418 - Artificial Intelligence | 3 hours**

Prerequisite(s): CPTR 318—Search techniques and methods of knowledge representation. Application to areas such as planning, learning, expert systems, neural networks, intelligent agents, natural language processing, image processing, and speech recognition. Introduction to the languages used in AI. (Fall, even numbered years)

**CPTR 425 - Computer Graphics | 3 hours**

Prerequisite(s): CPTR 318; MATH 192. Recommended: MATH 200—This course teaches the principles of generating graphical images on a computer with an emphasis on the underlying mathematical theory and its programming implementations. Topics include graphics primitives, windowing techniques, clipping, 2-D and 3-D transformations, projections, 3-D viewing techniques, cubic interpolating and approximating curves, bicubic 3-D surface patches, fractal curves and surfaces, hidden line and surface removal, shading, surface mapping, ray tracing, animation techniques. (Fall, odd numbered years)

**CPTR 427 - Network Security | 3 hours**

Prerequisite(s): CPTR 328. Recommended: CPTe 254—This course provides an overview to key issues and solutions for information security and privacy. Introduction to cryptography and its application to network and operating system security; security threats; applications of cryptography; secret key and public key cryptographic algorithms; hash functions; basic number theory; authentication; security for electronic mail and network scripting languages. Two hours of lecture and three hours of lab each week. (Winter)

**CPTR 432 - Managing and Programming Mobile Applications | 3 hours**

Prerequisite(s): CPT 230—This is a practical course in web and mobile centric computing. Topics include programming mobile devices and web services, and configuring servers and services for deploying and managing web services and mobile programs. (Winter, odd years)

**CPTR 442 - Theory of Computation | 3 hours**

Prerequisite(s): CPTR 318; MATH 280—Formal models of computation such as finite state automata, push-down automata and Turing machines. Formal languages. Computability and complexity theory along with the practical implications of theoretical results. (Winter, odd numbered years)

**CPTR 465 - Topics in Computer Science | 1-3 hours**

Prerequisite(s): Permission of the instructor—See CPTR 265 for course description.

**CPTR 486 - Senior Seminar (W) | 2 hours**

Prerequisite(s): Admission to the School of Computing; Senior standing or permission of instructor—Written and oral reports are made on specific topics treated in current computer science literature. Résumé writing, interviewing, application to graduate school, GRE testing, social and professional issues, witnessing on the job and at graduate school are also discussed. A comprehensive assessment exam will be taken as a class requirement. (Winter)

**CPTR 488 - Senior Project | 2 hours**

Team-based, capstone project that demonstrates the student's ability to integrate various elements of the undergraduate computing experience. Project will include proposal, implementation, and presentation phases. Particular attention will be given to literature review, budgeting, societal effects, and design process. (Fall)

**CPTR 492 - Computing Internship | 1-3 hours**

Prerequisite(s): Consent of instructor or school dean—See CPTR 292 for course description.

**CPTR 495 - Directed Study in Computer Science | 1-3 hours**

Prerequisite(s): Permission of instructor and school dean—See CPTR 295 for course description.

## Economics

**ECON 213 - Survey of Economics (I-5) | 3 hours**

A course designed for the general education student. It provides an understanding of the United States' mixed economy through a study of the market system, the role of money, the government's fiscal policy, and the impact of the foreign sector. No credit is available if ECON 224 or ECON 225 has been taken. This course does not apply for credit to a BBA or BS Business major.

**ECON 224 - Principles of Macroeconomics (I-5) | 3 hours**

This course is cross-listed with PLSC 224, History Department. A student may receive credit for this course from only one program—A study of economics as it affects the national interest. Topics include total employment, output and income, with inflation and recession, and with the variables that influence these conditions. (Fall)

**ECON 225 - Principles of Microeconomics | 3 hours**

Prerequisite(s): ECON 224, PLSC 224, a high school economic class, or consent of instructor—Analyzes specific market environments which influence business policy. Topics include scarcity and choice, individual goods and markets, and the price mechanism showing how it automatically directs the society's resources into the most desirable uses. (Winter)

**ECON 265 - Topics in Economics | 1-3 hours**

Prerequisite(s): Permission of the instructor—Selected topics designed to meet the needs or interests of students in specialty areas of business and management. This course may be repeated for credit with permission.

**ECON 452 - Financial Markets, Rates, and Flows | 3 hours**

Prerequisite(s): ECON 224; FNCE 315—This course is cross-listed with FNCE 452. A student may receive credit for this course from only one program—Mediums of exchange, money and credit, banks and their services, the Federal Reserve System, and other financial institutions are considered. (Winter)

**ECON 465 - Topics in Economics | 1-3 hours**

Prerequisite(s): Permission of the instructor—See ECON 265 for course description.

## Outdoor Education

### EDOE 301 - Outdoor Ministries (SERV-2) | 3 hours

This course is at the heart of Christian outdoor leadership and youth ministry. Quite simply it is the art of connecting people with God through the book of nature. During the course students will study and emulate the outdoor teaching methods of Jesus and discover the transformational power of the wilderness as depicted in the Bible. Emphasis is placed on the development of metaphors, parables, and object lessons derived from nature. Students will gain practical outdoor ministry experience through networking with area schools, church, and community programs. An extended off-campus field experience of up to four days may be required. Lab fee 6 will be assessed for this course. (Fall)

### EDOE 348 - Environmental Education (SERV-2) | 3 hours

This course is designed to give students practical experience in the use of the outdoor classroom. Recent trends in methods, materials, strategies, laboratory techniques, assessment, and curriculum standards will be covered. Students gain valuable experience by teaching environmental education at local schools as well as by the planning and implementation of a multi-day outdoor school. An extended off-campus field experience of up to four days may be required. Lab fee 6 will be assessed for this course. (Winter)

## Education

### EDUC 129 - Introduction to and Foundations of Elementary Education | 3 hours

This course is designed to give college students an opportunity to be immersed in their first Professional Development School experience and is required of all students seeking elementary education licensure. Additionally, weekly focused reading and discussion will include teaching as a profession, current issues and trends (e.g. the natural learning cycle) in public and Seventh-day Adventist education, as well as the foundations and history of education. Practical experience in diverse classroom settings is gained while assigned to an elementary class. Students will be required to show evidence of passing a Tennessee Board of Investigation background check prior to entering the classroom. Lab fee 8 will be assessed for this course.

### EDUC 138 - Introduction to and Foundations of Secondary Education | 3 hours

This course is designed to give college students an opportunity to be immersed in their first Professional Development School experience and is required of all students seeking secondary education licensure. Practical experience in diverse classroom settings is gained while assigned to a secondary class. Additionally, weekly focused reading and discussion will include teaching as a profession, current issues and trends (e.g. the natural learning cycle) in public and Seventh-day Adventist education, as well as the foundations and history of education. Students will be required to show evidence of passing a Tennessee Bureau of Investigation background check prior to entering the classroom. Lab fee 8 will be assessed for this course.

### EDUC 217 - Psychological Foundations of Education | 2 hours

The study of psychological information and its application to the processes of teaching and learning. The course covers subjects such as theories of learning, pupil characteristics, pupil variability, culture and community, motivation, creating learning environments, and student assessment.

### EDUC 220 - Growth Years (S-2) | 3 hours

A study of life from the prenatal period through the adolescent years. Although the course incorporates a holistic perspective and integrates dimensions of physical, social, emotional, and moral development, particular emphasis is given to cognitive development and to the applications of cognitive processes to the teaching/learning environment.

### EDUC 232 - Survey of Children's Literature | 2 hours

A survey of children's literature K-8. Each genre of children's literature will be explored. Emphasis is placed on reading for relationship and pleasure, reading aloud as a teaching strategy, and using literature to enhance the curriculum.

### EDUC 238 - K-6 Bible Methods | 3 hours

An introduction to the pedagogical knowledge, skills, and dispositions related to effective religious (spiritual) instruction in Kindergarten-6th grade. Strategies will be taught within the context of leading children into a personal relationship with God, providing them with a belief system, and teaching them the principles of discipleship. Teacher candidates will focus on using the natural learning cycle to develop lesson plans, including cooperative learning structures and Dimensions of Learning. Field experience is required. (Winter)

### EDUC 295 - Directed Study | 1-3 hours

Prerequisite(s): Admission to Teacher Education—This course permits the advanced student with adequate preparation to pursue independent study in special fields. This course may be repeated for credit.

**EDUC 301 - English as a Second Language: Issues and Trends | 3 hours**

This course is cross-listed with ENGL 301. A student may receive credit for this course from only one program—See ENGL 301 for course description.

**EDUC 302 - English as a Second Language: Strategies and Methods | 3 hours**

Prerequisite(s): Admission to Teacher Education or permission of instructor—Involves the study and application of second-language theories and cultural knowledge to ESL teaching methodology and curriculum design. In addition, it explores various approaches and techniques for adjusting lessons to suit the needs of second-language learners and enhance their acquisition of English. Concentrates on assisting educators in the development of appropriate strategies for teaching, speaking, writing, and grammar usage in ESL environments. Five (5) hours of field experience will be required. (Fall)

**EDUC 303 - Professional Seminar | 1 hour**

Prerequisite(s): Admission to Teacher Education—A seminar designed to address issues related to becoming a professional educator. Topics include portfolio development, interviewing skills, preparation for professional exams, overview of professional organizations, and other topics of importance as identified by candidates. (Fall)

**EDUC 319 - Technology in Education (I-2b, I-2c) | 3 hours**

This course examines educational technology as an effective means for supporting instruction and maximizing learning. Particular emphasis is given to the selection, development, and utilization of electronic instructional media, as well as educational issues related to the use of technology. Students participate in a variety of hands-on experiences in the utilization of technology resources, as well as in the creation of technology-rich learning elements and environments. Lab fee 4 will be assessed for this course. Note: This course meets the technology requirements for NAD recertification.

**EDUC 320 - Literacy in the Primary Grades | 2 hours**

Prerequisite(s): Admission to Teacher Education—This course is a professional development experience designed to prepare PreK-2nd grade teachers to incorporate developmentally appropriate practices supporting literacy in the instructional program, including common core standards, assessment, and differentiated instruction. The course will focus on a comprehensive study of evidence-based practices related to phonemic awareness, phonics, reading and writing process, spelling, and oral language. A minimum of twenty (20) hours of field experience is required. Lab fee 8 will be assessed for this course. (Fall)

**EDUC 322 - Educational Research and Statistics (W) | 3 hours**

Prerequisite(s): Admission to Teacher Education—This course examines research methodology as well as basic descriptive and inferential statistics. The emphasis is on the practical aspects of educational research, including research proposals and the critique of published research. APA style and computer-aided analysis will be required. (Fall)

**EDUC 324 - K-6 Language Arts Methods | 3 hours**

Prerequisite(s): Admission to Teacher Education—A comprehensive study of effective evidence-based language arts principles and instructional methods appropriate for Kindergarten-6th grade. Effective methods and strategies related to both the receptive and expressive language arts (including listening, talking, writing, viewing, and visual representation) are emphasized. Teacher candidates become familiar with frameworks of instruction that support multi-grade contexts, developmentally appropriate practices, and differentiating for diversity. Study is given to assessments that inform instruction in the language arts. A minimum of 15 hours of cohort-based field experience provides opportunities for application of knowledge, skills, and dispositions. Lab fee 4 will be assessed for this course. (Fall)

**EDUC 326 - K-6 Reading Methods | 3 hours**

Prerequisite(s): Admission to Teacher Education—Corequisite(s): EDUC 327, EDUC 328, EDUC 329, and EDUC 331—A comprehensive study of effective and evidence-based reading principles and instructional methods appropriate for Kindergarten-6th grade. Effective methods and strategies related to phonemic awareness, phonics, fluency, vocabulary, and comprehension are emphasized. Teacher candidates become familiar with frameworks of instruction that support multi-grade contexts, developmentally appropriate practices, and differentiating for diversity. Study is given to assessments that inform reading instruction. Incorporates fieldwork that includes an intensive culminating field experience in conjunction with EDUC 327, EDUC 328, EDUC 329, and EDUC 331, providing opportunity for application of knowledge skills, and dispositions. Lab fee 1 will be assessed for this course. (Winter)

**EDUC 327 - K-6 Mathematics Methods | 3 hours**

Prerequisite(s): Admission to Teacher Education—Corequisite(s): EDUC 326, EDUC 328, EDUC 329, and EDUC 331—Includes curriculum organization, materials, methods, and instructional aids with emphasis on multi-grade classrooms. Attention is given to the sequential skill development and to changes in the mathematical contents, technology and pedagogy. Instruction is also provided in lesson planning, assessment, and differentiating instruction to meet the needs of diverse learners. Observation and

micro-teaching required. Incorporates fieldwork that includes an intensive culminating field experience in conjunction with EDUC 326, EDUC 328, EDUC 329, and EDUC 331, providing opportunity for application of knowledge, skills, and dispositions. Lab fee 1 will be assessed for this course. (Winter)

**EDUC 328 - K-6 Science and Health Methods | 3 hours**

Prerequisite(s): Admission to Teacher Education—Corequisite(s): EDUC 326, EDUC 327, EDUC 329, and EDUC 331—Includes curriculum organization, methods, materials and equipment with emphasis on multi-grade classrooms. Techniques and materials are examined using basic principles of the scientific method. Instruction is also provided in lesson planning, assessment, and differentiating instruction to meet the needs of diverse learners. Incorporates fieldwork that includes an intensive culminating field experience in conjunction with EDUC 326, EDUC 327, EDUC 329, and EDUC 331, providing opportunity for application of knowledge, skills, and dispositions. Lab fee 1 will be assessed for this course. (Winter)

**EDUC 329 - K-6 Social Studies Methods | 3 hours**

Prerequisite(s): Admission to Teacher Education—Corequisite(s): EDUC 326, EDUC 327, EDUC 328, and EDUC 331—An introduction to the pedagogical knowledge, skills, and dispositions related to effective instruction and assessment in Social Studies for Kindergarten-6th grade. Teacher candidates become familiar with frameworks of instruction that support multi-grade contexts, developmentally appropriate practices, and differentiating for diversity. Incorporates field work that includes an intensive culminating field experience in conjunction with EDUC 326, EDUC 327, EDUC 328, and EDUC 331, providing opportunity for application of knowledge, skills, and dispositions. Lab fee 1 will be assessed for this course. (Winter)

**EDUC 331 - Educational Theory and Assessment | 3 hours**

Prerequisite(s): Admission to Teacher Education—Corequisite(s): EDUC 326, EDUC 327, EDUC 328, and EDUC 329—The study of education theories as these pertain to the teaching-learning process. Theories include behaviorism, social cognitive theory, information processing theory, and constructivism. Candidates will study and develop a variety of assessment instruments that include formative, summative, and standardized testing. The practical application of the theories and assessment is a part of the field experience for this course. EDUC 326, EDUC 327, EDUC 328, and EDUC 329 provide opportunity for application of knowledge, skills, and dispositions. Lab fee 1 will be assessed for this course. (Winter)

**EDUC 338 - Foundations of Inclusive Education (SERV-2) | 3 hours**

Prerequisite(s): Admission to Teacher Education or permission of instructor—This course is based on the assumption that all students are capable of learning. The course seeks to familiarize teacher candidates with the broad range of exceptionalities found in elementary and secondary classrooms. Emphasis is placed on learning to differentiate instruction to meet the needs of diverse students in inclusive classrooms. This course will include a case study incorporating twenty (20) hours of field experience outside of class time, scheduled with the field experience coordinator. Lab fee 4 will be assessed for this course.

**EDUC 341 - General Methods and Assessment | 3 hours**

Prerequisite(s): Admission to Teacher Education—Corequisite(s): Should be taken jointly with EDUC 342, EDUC 343, and EDUC 434, as applicable in the candidate's program—An introduction to the pedagogical knowledge, skills, and dispositions related to differentiated instruction and assessment. Other topics include teacher responsibilities, culturally responsive teachers, teacher self-assessment, and study skills. Forty-five hours of field experience provide opportunity for application of knowledge skills and dispositions.

**EDUC 342 - Curriculum and Content Methods | 2 hours**

Prerequisite(s): Admission to Teacher Education—Corequisite(s): Should be taken jointly with EDUC 341, EDUC 343, and EDUC 434, as applicable in the candidate's program—This course is designed to be the final step before students are placed for their student teaching practicum. As such, the class combines discussion, guided practice in various teaching activities, and actual teaching experience in area middle schools and high schools/academies. Attention is given to Southern Union and Tennessee curriculum standards, as well as methods and materials of planning, instruction, and evaluating student performance. Requirements for both state and denominational certification are addressed, including PRAXIS test preparation. Curriculum and Content Methods are offered in Biology, Chemistry, English, History, Languages, Mathematics, Physics, and Religion, for Grades 7-12. Fifteen hours of field experience provide opportunity for application of knowledge, skills, and dispositions.

**EDUC 343 - Learning Theories and Classroom Management | 3 hours**

Prerequisite(s): Admission to Teacher Education—Corequisite(s): Should be taken jointly with EDUC 341, EDUC 342, and EDUC 434, as applicable in the candidate's program—The course is the study of educational theories as these pertain to the teaching-learning process and classroom management/behavior discipline models. Other topics include the characteristics of an effective teacher, first days of school, interviewing skills, preparation for professional exams, and parent-teacher conferences. Forty-five hours



of field experience provide opportunity for application of knowledge, skills, and dispositions. Lab fee 5 will be assessed for this course.

**EDUC 350 - Web-based K-6 Unit Planning | 1 hour**

Designed to introduce students to designing conceptually based thematic units based on the natural learning cycle. Units will be designed using web-based technology.

**EDUC 419 - Philosophy and Leadership in Christian Education (W) (SERV-2) | 3 hours**

Prerequisite(s): Admission to Teacher Education or permission of instructor—This course is designed to familiarize teacher candidates with the scriptural principles and philosophical base as it relates to Seventh-day Adventist education and instructional leadership. The writings of Ellen White and others inform this study. Leadership principles are studied, including topics related to the integration of faith and learning, interpersonal communication, administration of small schools, and the responsibility of educators to constituencies.

**EDUC 421 - Behavior Management—Elementary | 2 hours**

Prerequisite(s): Admission to Teacher Education—This course is designed to prepare the candidate to successfully manage an elementary classroom. It includes instruction from notable authors such as Harry Wong, Lee Canter, Ellen White, William Glasser, and others. Students will refine their own approach based on their exposure to a variety of philosophies, theories, observations, and experiences.

**EDUC 423 - Issues in Adolescence | 3 hours**

Prerequisite(s): EDUC 220—This course is cross-listed with PSYC 422. A student may receive credit for this course from only one program—See PSYC 422 for course description.

**EDUC 425 - Pre-K-K Methods and Administration | 3 hours**

Designed to give the student an understanding of developmentally appropriate classroom administration, program planning, assessment, materials, and strategies for teaching your children in preschool and kindergarten. Emphasis is given to application of the principles of child development, differentiating instruction, and methods for promoting harmonious physical, mental, social, and emotional growth. Students should be working in a PreK-K classroom or be able to arrange for comparable field experience.

**EDUC 434 - Reading and Writing in the Content Areas | 2 hours**

Prerequisite(s): Admission to Teacher Education—Corequisite(s): Should be taken jointly with EDUC 341, EDUC 342, and EDUC 343, as applicable in the candidate's program—This course will help teachers focus on those literacy skills essential to differentiate for the needs of each student. It will include modeling the process necessary for literacy and learning concepts in a subject area and instructing students so they can become independent learners. The development of vocabulary, comprehension and study/reference skills in grades 7-12 will be covered. Causes of literacy problems, assessment procedures, and organization of a sound literacy program are stressed. Principles learned will be applied in classroom settings. Fifteen hours of field experience provide opportunity for application of knowledge, skills, and dispositions. This course meets secondary reading methods requirements.

**EDUC 437 - Curriculum and General Methods, Grades 7-12 | 1 hour**

Prerequisite(s): Admission to Teacher Education—This course will provide students with the knowledge and skills in curriculum planning and researched-based teaching strategies for diverse learners. Current issues in secondary education are discussed, particularly technology and diversity. Professional dispositions are stressed. A minimum of ten (10) hours of field-based experience is required.

**EDUC 442 - Assessing and Remediating Reading Difficulties | 2 hours**

Prerequisite(s): Admission to Teacher Education—A course in reading instruction that focuses on meeting the needs of diverse learners. Candidates will become familiar with classroom reading assessments that inform effective reading instruction, in particular, students who are experiencing challenges with reading. An action research project is embedded in an intensive field experience. Lab fee 8 will be assessed for this course. (Fall)

**EDUC 464 - Teaching Seminar | 2 hours**

Prerequisite(s): Admission to Student Teaching—This course is designed to provide candidates with opportunities to enhance the student teaching experience through in-depth discussion and analysis of topics relevant to student teaching. The seminar will include an overview of major principles/theories of learning and teaching as they relate to actual classroom practice. Practitioners will make presentations related to areas of the teaching experience.

**EDUC 471 - Enhanced Student Teaching K-6 (SERV-2) | 10 hours**

Prerequisite(s): Admission to Student Teaching—Corequisite(s): EDUC 464—Designed as a full-time practicum for one semester. Students are assigned to two (2) placements (K-3, 4-6). Cooperating teachers, determined by the district and university personnel, are selected according to experience,

certification, and competence, and share supervision responsibilities with university faculty, who assume responsibility for the final summative evaluation.

**EDUC 472 - Enhanced Student Teaching 7-12 (SERV-2) | 10 hours**

Prerequisite(s): Admission to Student Teaching—Corequisite(s): EDUC 464—Designed as a full-time practicum for one semester. Students are assigned to two (2) placements (7-8, 9-12). Cooperating teachers, determined by the district and university personnel, are selected according to experience, certification, and competence, and share supervision responsibilities with university faculty, who assume responsibility for the final summative evaluation.

**EDUC 473 - Enhanced Student Teaching K-12 (SERV-2) | 10 hours**

Prerequisite(s): Admission to Student Teaching—Corequisite(s): EDUC 464—Designed as a full-time practicum for one semester. Students may be assigned to three (3) placements (K-4, 5-8, 9-12). The time spent will be approximately six weeks in each area. Cooperating teachers, determined by the district and university personnel, are selected according to experience, certification, and competence, and share supervision responsibilities with university faculty, who assume responsibility for the final summative evaluation.

**EDUC 475 - Workshop in Education (Methodology) | 1-3 hours**

Experienced teachers are given opportunity to work under supervision on curriculum problems. Credit is also available for preservice students as an elective.

**EDUC 476 - Practicum: English as a Second Language | 1 hour**

Prerequisite(s): Admission to the Teacher Education program with junior or senior standing—Supervised experience in a school setting working with ESL teachers and students. A minimum of thirty (30) clock hours of classroom experience in two placements (PreK-6 and 7-12) is required. Candidates will spend additional time in lesson planning. Cooperating teachers will be determined by collaboration between university and K-12 personnel. University faculty assumes responsibility for the final summative evaluation. Grades will be assigned on an A, B, or F basis.

**EDUC 485 - Workshop in Education (Content) | 1-3 hours**

Experienced teachers are given opportunity to develop new skills and gather new facts in content fields at various levels. Credit is also available for preservice students as an elective.

**EDUC 495 - Directed Study | 1-3 hours**

Prerequisite(s): Admission to Teacher Education—See EDUC 295 for course description.

## English Language Skills

**EESL 123 - Language Skills: Grammar 1 | 3 hours**

Prerequisite(s): TOEFL score of at least 450 (IBT 45)—This course provides an overview of the basic sentence patterns of English and develops the grammar skills necessary for clear written and oral communication. Students who do not earn a minimum grade of C will be required to repeat the course. EESL 123 and EESL 124 may be taken in any order. (Fall)

**EESL 124 - Language Skills: Grammar 2 | 3 hours**

Prerequisite(s): TOEFL score of at least 450 (IBT 45)—This course provides a further look at introductory grammar topics and continues the development of grammar skills for clear and accurate communication. Students who do not earn a minimum grade of C will be required to repeat the course. EESL 123 and EESL 124 may be taken in any order. (Winter)

**EESL 125 - Language Skills: Grammar 3 | 3 hours**

Prerequisite(s): TOEFL score of at least 500 (IBT 61) or completion of EESL 124 with a grade of C or higher—This course offers a review of English grammar with a focus on accuracy in written usage. Students who do not earn a minimum grade of C will be required to repeat the course. (Fall)

**EESL 126 - Language Skills: Grammar 4 | 3 hours**

Prerequisite(s): Completion of at least one semester in the ESL program or TOEFL score of at least 525 (IBT 71)—This course offers a review of English grammar with a focus on accuracy in written usage. Students who do not earn a minimum grade of C will be required to repeat the course. (Winter)

**EESL 133 - Language Skills: Writing 1 | 3 hours**

Prerequisite(s): TOEFL score of at least 450 (IBT 45)—Corequisite(s): EESL 134—This course offers an introduction to academic writing skills, including the study of the steps in the writing process, the parts of the paragraph and basic essay structure. Emphasis on sentence and paragraph structure. Students who do not earn a minimum grade of C will be required to repeat the course.

**EESL 134 - Language Skills: Writing 2 | 3 hours**

Prerequisite(s): TOEFL score of at least 500 (IBT 61) or completion of EESL 124 with a grade of C or higher—This course develops academic writing skills, emphasizing the process of planning, writing, revising, and editing paragraphs and essays for a particular audience. Students who do not earn a minimum grade of C will be required to repeat the course. (Winter, but can be taught and scheduled concurrently with EESL 133 in the fall for students who meet prerequisites).

**EESL 141 - Language Skills II: TOEFL Preparation | 1 hour (non-credit)**

Prerequisite(s): Admission to the EESL program—A course designed to help Advanced students prepare for the TOEFL test, giving practice and experience in all areas of the test.

**EESL 142 - English for Academic Purposes 1 | 3 hours**

Prerequisite(s): TOEFL score of at least 450 (IBT 45)—This course serves to increase vocabulary and develop reading skills for newcomers to the American academic environment. Students will learn strategies for approaching academic readings and lectures, and show understanding through paraphrase, summary, and note taking skills. Students may also be exposed to library and research skills. Students who do not earn a minimum grade of C will be required to repeat the course. (Fall)

**EESL 143 - English for Academic Purposes 2 | 3 hours**

Prerequisite(s): TOEFL score of at least 450 (IBT 45). Students with scores above 500 (IBT 61) are encouraged to register for EESL 141 instead—This course improves the student's ability to handle academic reading, oral academic discourse, and the critical thinking skills demanded by university course work. Students may not concurrently register for EESL 141, as this course includes TOEFL preparation. This course is primarily designed for students who enter the university for the first time in the winter semester or whose TOEFL scores remain low after completion of the fall semester. (Winter)

**Literature****ELIT 214 - Survey of American Literature (S-3a) | 3 hours**

Prerequisite(s): ENGL 102—A study of representative selections from major American authors, from the pre-colonial period to the present, with emphasis on literature as it relates to history, spirituality, and aesthetic enjoyment. (Fall)

**ELIT 215 - Survey of English Literature (S-3a) | 3 hours**

Prerequisite(s): ENGL 102—A study of representative selections by British writers, with special emphasis on the author's philosophy as compared or contrasted with Bible-based thinking, and a review of literary trends and influences from the late Roman period to the present. Among writers receiving strong attention are Chaucer, Shakespeare, Donne, Milton, and Wordsworth.

**ELIT 216 - Approaches to Literature (S-3a) | 3 hours**

In this course students read and interpret short stories, poems, and drama in terms of current literary theories. Students acquire the basic tools and vocabulary to analyze a variety of diverse works including the Bible as literature. Students have interactive opportunities to develop philosophical and professional values which can guide them in making wise reading and viewing decisions. (Winter)

**ELIT 240 - C. S. Lewis (S-3a) | 3 hours**

Prerequisite(s): Permission of the instructor—This course is cross-listed with ELIT 440, but does not apply to a major or minor in English—See ELIT 440 for the course description.

**ELIT 295 - Directed Study | 1-3 hours**

The content of this course will be adjusted to meet the particular needs of the student. This course may be repeated for credit.

**ELIT 323 - Nineteenth-Century American Literature (S-3a) (W) | 3 hours**

This course is a chronological study of some of the most important works of American literature written during the nineteenth century. Significant authors in this course are Washington Irving, Ralph Waldo Emerson, Nathaniel Hawthorne, Herman Melville, Henry David Thoreau, Henry James, and Mark Twain. (Winter, even years)

**ELIT 332 - Studies in Medieval Literature (S-3a) (W) | 3 hours**

A study of literary selections from the English Medieval period. Emphasis placed on the works of Old English poetry (including Beowulf), translations of the Bible ranging from Caedmon in the seventh century to Wycliffe in the fourteenth century, Arthurian legends, Chaucer, sources and analogues of the works, and twentieth-century criticism. (Fall, odd years)

**ELIT 333 - Studies in Renaissance Literature (S-3a) (W) | 3 hours**

A survey of literary selections from religious and secular poetry, prose, and drama of the English Renaissance period (1485-1608). Emphasis placed on the works of Spencer, Shakespeare, Sydney, and

translations of the English Bible from Tyndale's New Testament to the Authorized (King James) Version. (Winter, even years)

**ELIT 335 - Biblical Literature (S-3) (W) | 3 hours**

Biblical literature is a study of the literary masterpieces of the Bible in translation. The course applies the techniques of oral, interpretation, and literary analysis to forms of literature such as narrative, lyric poetry, proverb, parable, epistle, and speech.

**ELIT 337 - Nineteenth-Century British Literature (S-3a) (W) | 3 hours**

A study of British writers from the Romantic and Victorian periods (1785-1901), with special emphasis upon Blake, Wordsworth, Coleridge, Byron, Shelley, Keats, Austen, Tennyson, Dickens, Arnold, Browning, Carlyle, and Wilde. (Winter, even years)

**ELIT 338 - Twentieth-Century Writers (S-3a) (W) | 3 hours**

This course is a study of twentieth-century literary themes through readings in American and British literature. Significant authors to be studied in this course are James Joyce, Samuel Beckett, T. S. Eliot, William Faulkner, Franz Kafka, Eugene O'Neill, and Edith Wharton. (Fall)

**ELIT 368 - Studies in Milton (S-3a) (W) | 3 hours**

The major poetry of John Milton, including Lycidas, Paradise Lost, selected sonnets, psalms, tracts, and important prose. (Winter, odd years)

**ELIT 417 - World Literature in Translation (S-3a) (W) | 3 hours**

This course is a study of significant literature in translation from ancient times through the Middle Ages or later. (Winter, odd years)

**ELIT 425 - Literature of the South (S-3a) (W) | 3 hours**

This course considers literary works from important writers of the American South including Mark Twain, William Faulkner, Flannery O'Connor, and others.

**ELIT 430 - Library Materials for Young Adults | 2 hours**

A survey of the variety of books and related materials available for grades 7-12. Designed for prospective teachers in SDA junior and senior academies as well as those in public middle and high schools, this course correlates critical evaluation and selection to the uses, and specific needs of young adults as they develop their reading habits and skills. Includes a study of censorship and copyright law. (Winter)

**ELIT 440 - C. S. Lewis (S-3a) (W) | 3 hours**

A survey and critical study of the literature of C. S. Lewis. Major fictional work, his autobiography, and theological works are selected for study from the post-conversion period of Lewis's life. Critical literary theorists and primary source authors are examined in connection with the literature. The course will focus on issues of faith and on literary techniques as demonstrated in this popular 20th century authors' various literary genres. This class does not count toward a major or minor in English. (Fall, even year)

**ELIT 442 - Shakespeare (S-3a) (W) | 3 hours**

Prerequisite(s): ENGL 102—Celebrated as the greatest of English writers, Shakespeare continues to influence world culture. This course employs a variety of critical strategies to read and discuss several plays. Topics discussed include authority and ethical government, art and the shaping of history, social unity and the influence of the theatre, staging and performance, music and costume, superstition and magic, identity and the self, honor and cowardice, obedience and the conscience. Students will attend a professional performance of a selected Shakespeare play. Lab fee 4 will be assessed for this course. (Fall)

**ELIT 444 - Restoration and Eighteenth-Century Literature (S-3a) (W) | 3 hours**

This course considers British literature written between the Restoration and Romantic Revolution. Included are poets and essayists from Milton to Johnson, novelists like Defoe and Fielding, and comic playwrights such as Gay and Goldsmith. (Winter, odd years)

**ELIT 445 - Ancient Classics (S-3a) (W) | 3 hours**

After beginning with the three great epics that underlie the literature of the Western World—the Iliad, the Odyssey, and The Book of Job—the course considers a range of Greek and Roman works. Collateral emphasis is on enhancing a student's ability to distinguish between classical Greco-Roman and Judeo-Christian modes of thought. (Fall)

**ELIT 454 - Latino Literature (S-3a) (W) | 3 hours**

Prerequisite(s): ELIT 216 and MDLG 230 or approval of the department—This course is cross-listed with SPAN 454. A student may receive credit for this course from only one program—See SPAN 454 for course description.

**ELIT 460 - Senior Research Project in English | 1 hour**

Prerequisite(s): Permission of the instructor—Because graduate schools increasingly require applicants to submit longer papers for review, every English major must write a full-length research paper which will replace the normal research assignment in one upper-division ELIT class. The paper is based on both literary criticism and the primary reading of a literary text. To graduate, English majors must earn passing grades on this project; however, enrollment is limited to two students per class, and not all upper-division English classes will accommodate this project in a given semester. Additional information appears in the current “Guidelines for the Senior Research Project in English.”

**ELIT 463 - Literary Criticism | 3 hours**

Prerequisite(s): ENGL 102; ELIT 216—A survey of modern approaches to literary criticism, including Psychoanalytic, Feminist, Marxist, Structuralist, Deconstructionist, New Historicist, and Postcolonialist. (Fall)

**ELIT 465 - Topics in Literature | 1-3 hours**

Selected topics in literature presented in a classroom setting. Subjects covered will determine how the class applies to the major. This course may be repeated for credit.

**ELIT 490 - Senior Capstone | 1 hour**

Prerequisite(s): Senior standing—This course is for senior English majors only, to be taken during the semester prior to the final semester before graduation. The work consists of essay writing, portfolio preparation, an oral assessment, and reviewing for and taking the Major Field Test, Literature in English. An English major may earn a grade of Honors (“A” on the transcript), Pass, or Fail. English students must score at or above the 50th percentile on the Major Field Test, with acceptable performance on essays, portfolio, and the oral assessment, in order to earn a Pass. A student may earn a grade of Honors (“A” on the transcript), Pass, or Fail. One must earn at least a Pass in order to graduate as an English major.

**ELIT 495 - Directed Study | 1-3 hours**

See ELIT 295 for course description.

**English****ENGL 100 - Basic Writing | 3 hours**

Focuses on development of writing skills necessary for successful entry into ENGL 101 and for increasing English ACT scores. Students with English ACT scores below 18 must register for this class. In special cases where a Basic Writing student with a low score demonstrates the skills to succeed in ENGL 101, the Composition Coordinator, in concert with affected ENGL 100 and ENGL 101 professors, may agree to admit him or her to ENGL 101. Students successfully completing this course with a grade of C or higher earn three institutional elective credits. Near the end of the course, students take the English section of the ACT test and must score 18 or higher in order to progress into College Composition 101. The test fee may be charged to student accounts. ENGL 100 does not count toward an English major or minor.

**ENGL 101 - College Composition I (I-1a) | 3 hours**

Prerequisite(s): English ACT score of 18 or higher or writing SAT score of 450 or higher—To challenge this course by examination, a student must have a 25 ACT English or a 570 SAT Writing score. ENGL 101 focuses strongly on the writing process, especially revision, emphasizing specific writing skills and principles which readily apply to most writing tasks. Students write persuasive essays organized according to prescribed modes. This course does not count toward an English major or minor. (Fall, Winter, Summer)

**ENGL 102 - College Composition 2 (I-1b) | 3 hours**

Prerequisite(s): ENGL 101—ENGL 102 reinforces the proficiencies developed in ENGL 101 while focusing on rhetorical and reasoning skills which apply to various persuasive and research writing activities. Students write persuasive and argument essays and a research paper. This course does not count toward an English major or minor. (Fall, Winter, Summer)

**ENGL 103 - H:College Composition II (I-1b) | 3 hours**

Prerequisite(s): Acceptance into Southern Scholars and completion of ENGL 101 with a grade of A- or higher, or permission of the instructor—This course is required for Southern Scholars. It is a more rigorous version of ENGL 102, emphasizing full argumentation in all writing modes and a longer research paper. Students taking this class are expected to have a strong grasp of grammar and usage. However, it does not count toward an English major or minor. (Winter)

**ENGL 106 - H:College Composition II | 1 hour**

This course is required for Southern Scholars who have taken ENGL 102 rather than ENGL 103. The content of this class will be adjusted to meet the particular needs of the student as demonstrated in a portfolio of composition writing assignments.

**ENGL 132 - Programmed Grammar Study | 1 hour**

This is a structured review for English major applicants who have not passed the department's qualifying grammar examination. Such students must complete this course with a B or better to be considered for acceptance as English majors. The class does not count toward an English major or minor.

**ENGL 150 - English Major Qualification | 0 hours**

This pass-fail class assesses a student's readiness to gain departmental acceptance as an English major, and is normally taken during the second semester of the freshman year. Coursework includes producing a writing portfolio, counseling with the student's adviser, presenting a record of success in ENACT or SAT-Writing tests and selected college English courses, and carrying out such special essays or project as may be assigned by the adviser. Although the English Department chair is teacher of record, the adviser works directly with the student, and the department as a whole conducts the final evaluation to determine his/her grade. To complete an English major, a student must receive a P in this course.

**ENGL 202 - Grammar | 3 hours**

This course is a rigorous examination of English grammar (descriptive and prescriptive) focusing on how words function in sentences, and how sentences relate to one another in paragraphs. The class may be waived as an English-major requirement for those who receive high enough scores on the associated pre-test.

**ENGL 295 - Directed Study | 1-3 hours**

The content of this course will be adjusted to meet the particular needs of the student. This course may be repeated for credit.

**ENGL 301 - English as a Second Language: Issues and Trends | 3 hours**

This course is cross-listed with EDUC 301. A student may receive credit for this course from only one program—The central purpose of this course is to provide experience in identifying, analyzing, and discussing significant current issues in the field of English as a Second Language with in-depth study of the history of English as a Second Language instruction. Additional study will focus on articles written by major researchers in this field. This course will also investigate the development and characteristics of various programs used in teaching English to limited English proficient (LEP) students and review current state and federal requirements affecting provision of services for non-English background learners.

**ENGL 302 - English as a Second Language: Strategies and Methods | 3 hours**

This course is cross-listed with EDUC 302. A student may receive credit for this course from only one program—See EDUC 302 for course description.

**ENGL 304 - Grammar and Linguistics for Elementary Teachers | 3 hours**

Prerequisite(s): ENGL 102—The course is a thorough review of traditional grammar and standard American usage, a survey of other grammatical approaches, and an introduction to linguistic topics relevant to the prospective elementary teacher. These topics include the history and development of the English language, the nature of language and its pedagogical implications, and issues surrounding dialects in the classroom. (Fall)

**ENGL 312 - Creative Writing: Language Arts Elementary Teacher (S-3c) (W) | 3 hours**

Prerequisite(s): Satisfactory score on placement exam—A workshop experience designed to provide teachers with tools and skills needed in the elementary classroom. Work provides opportunities to experiment with various genres suitable to the student's chosen level of teaching as well as experience in evaluating creative writings. (Fall)

**ENGL 313 - Expository Writing (S-3c) (W) | 3 hours**

Prerequisite(s): ENGL 102—A workshop approach that provides practical instruction in expository writing for all disciplines. Emphasizes developing a natural writing style; writing economical but lively prose; increasing vocabulary; and cultivating a writing process which frees writer's block and facilitates thoughtful, cogent, focused, coherent, and fluent writing. Involves reading and analysis of a wide variety of writing. Helpful for all students wishing to improve their writing skills, particularly those headed for graduate school or for professions in which writing is important. Tailored to the needs and interests of students who enroll. (Fall)

**ENGL 314 - Creative Writing (S-3c) (W) | 3 hours**

Prerequisite(s): Three hours of literature—A workshop setting in which students study the principles of writing in literary genres. Each student will propose the contents of a personal portfolio. Upon approval, the students will work closely with the instructor to develop their chosen collection: poetry, fiction, creative nonfiction, or drama. They will participate in critiquing the work of classmates online, in hard copy, and in the classroom. Students will be encouraged to develop their own style and to find possible markets for manuscripts that may be worthy of publication. This class is not available for audit. (Fall)

**ENGL 316 - Modern English Grammar and Linguistics | 3 hours**

This class is both a study of modern English grammar and its structure and an introduction to the theoretical areas of pragmatics, semantics, syntax, morphology, and phonology. The course will familiarize students with Reed-Kellogg diagramming, deep structure diagramming, and the theories of transformational-generative grammar. (Winter)

**ENGL 320 - Rhetoric for Writers | 3 hours**

A survey of the theories and techniques of rhetoric from ancient Greece to the present. Particular attention is given to the ways in which contemporary writers can create appropriate rhetorical strategies for communicating in their own social and cultural contexts. (Fall)

**ENGL 414 - Advanced Creative Writing | 3 hours**

Prerequisite(s): Permission of the instructor—A course designed to refine the skills of experienced creative writers who plan to publish their work. Students wishing to enroll will submit a collection of their finished writings and a proposal outlining their personal goals for the semester; students will be accepted only on the approval of the instructor. Reading assignments will be designed to match the needs of each student. Instruction will include marketing strategies and manuscript format. This class is not available for audit. (Winter)

**ENGL 420 - Professional and Technical Writing | 3 hours**

A course created to teach students to design and produce documents that communicate professional and technical information effectively and efficiently. The course will emphasize the clarity, accuracy, and correctness demanded by writing in various workplace genres—for example, letters, memos, reports, directions, and explanations. Students will learn to analyze audience needs and modify their communications accordingly. (Winter)

**ENGL 465 - Topics in English | 1-3 hours**

Selected topics in English presented in a classroom setting. Subjects covered will determine how the class applies to the major. This course may be repeated for credit.

**ENGL 476 - Practicum: English as a Second Language | 1 hour**

Supervised experience in a community setting working with adult ESL students, including a minimum of twenty (20) clock hours of teaching in a community setting, maintaining a reflective teaching journal of classroom experiences, building a portfolio of lesson plans and materials development, and participation in TESL webinars or use of other training materials. Can be waived with relevant student missionary experience—

**ENGL 491 - English Practicum | 1-3 hours**

Prerequisite(s): 18 hours in the major, ENGL 313 Expository Writing or ENGL 314 Creative Writing, and formal approval by the department—The student gains on-the-job experience using English skills in a part-time work situation (maximum of 25 hours per week). A department coordinator works with the student and a local business to oversee placement and evaluation. Both the student and the business assess in writing the quality and nature of the work experience. The student receives 1 credit hour for each 50 hours of work experience. Positions can be paid or non-paid. Procedures and guidelines are available from the department. (Pass/Fail credit).

**ENGL 492 - English Internship | 3 hours**

Prerequisite(s): 18 hours in the major, ENGL 313 or ENGL 314, and formal approval by the department—The student gains on-the-job experience using English skills in a full-time work situation (minimum of 35 hours per week). A department coordinator works with the student and a selected business to oversee placement and evaluation. Both the student and the business assess in writing the quality and nature of the work experience. A minimum of 150 hours of supervised work is required. Positions can be paid or non-paid. Procedures and guidelines are available from the department. (Pass/Fail credit).

**ENGL 495 - Directed Study | 1-3 hours**

See ENGL 295 for course description.

**Engineering****ENGR 121 - Introduction to Engineering | 1 hour**

Exposure to the diverse aspects of the profession and practice of engineering and engineering design. Class will include guest lecturers and engineering design projects. Lab fee 4 will be assessed for this course. (Fall)

**ENGR 149 - Introduction to Mechanical Drawing and CADD (S-3d) | 3 hours**

This course is cross-listed with TECH 149. A student may receive credit for this course from only one program—An introductory level course in Computer-Aided Drafting Design (CADD) using AutoCAD software in orthographic projection, surface development, sectioning, pictorial representation, dimensioning,

and working drawings. Drawings plotted to scale on A, B, C, and D size paper. Six periods of laboratory each week. Lecture as announced by the instructor. Lab fee 3 will be assessed for this course. (Fall)

**ENGR 211 - Engineering Mechanics: Statics | 3 hours**

Pre- or co-requisites: MATH 192; PHYS 221—Two and three-dimensional equilibria employing vector algebra; friction; centroids and center of mass, virtual work, and moments of inertia. (Fall)

**ENGR 212 - Engineering Mechanics: Dynamics | 3 hours**

Pre- or co-requisites: ENGR 211; MATH 218; PHYS 222—One and two-dimensional kinetics and kinematics of rigid bodies by vector calculus; dynamics of rotation, translation and plane motion; relative motion; work and energy; impulse and momentum. (Winter)

**ENGR 228 - Linear Circuit Analysis | 3 hours**

Pre- or co-requisites: PHYS 222—Basic concepts of DC and AC circuit theory and analysis. Basic concepts of circuit behavior, circuit analysis theorems and methods, and RLC circuits including circuit variables and parameters; Kirchoff's laws and network solution; equivalent circuits, network theorems; natural and complete response; sinusoidal steady-state, phasors, and impedance. Introduction to test and measurement instrumentation, experimental techniques for analysis and characterization of electrical circuits. Includes three hours of laboratory each week. (Winter)

**ENGR 295 - Directed Study | 1-3 hours**

Individual or group work adjusted to meet particular needs of engineering studies students. Formal written report required. May be repeated for credit.

## Earth Science

**ERSC 105 - Earth Science (I-4c) | 3 hours**

A non-mathematical and qualitative introduction, for non-science majors, to the areas of physical geography, geology, and meteorology. Special consideration is given the environment—conservation or pollution of natural resources. (Fall, Winter, Summer)

## Family Studies

**FMST 150 - Cultural Anthropology (I-3b) (S-2) | 3 hours**

This course is cross-listed with SOCI 150 and SOCW 150. A student may receive credit for this course from only one program—See SOCI 150 for course description.

**FMST 201 - Parenting (S-2) (SERV-2) | 3 hours**

This course is cross-listed with SOCW 201. A student may receive credit for this course from only one program—A study of the family system in preparation for parenthood and the dynamics of parent-child interaction. Attention is given to family planning, the childbirth experience, child development, techniques for developing close relationships and communication between parent and child, understanding and relating to children's individuality, common child rearing problems, and methods of modifying behavior. (Winter)

**FMST 224 - Social Psychology (S-2) | 3 hours**

Corequisite(s): PSYC 224—This course is cross-listed with PSYC 224 and SOCI 224. A student may receive credit for this course from only one program—See PSYC 224 for course description.

**FMST 225 - Marriage and Family (S-2) | 3 hours**

This course is cross-listed with SOCW 225. A student may receive credit for this course from only one program—This course provides an overview of marriage and the family from social-psychological dimension, including intimate, economic and spiritual aspects. Included are investigations of courtship and marriage relationships, preparation for marriage, family and parenthood, interpersonal relationships and marital adjustment.

**FMST 230 - Multicultural Relations (I-3b) | 3 hours**

This course is cross-listed with SOCI 230, SOCW 230, and PSYC 231. A student may receive credit for this course from only one program—See SOCI 230 for course description. Lab fee 1 will be assessed for this course.

**FMST 233 - Human Sexuality (S-2) | 3 hours**

This course is cross-listed with SOCI 233, SOCW 233 and PSYC 233. A student may receive credit for this course from only one program—A study of human sexual behavior, relationships, and values as reflected in the Christian cultural setting. (Winter)



**FMST 250 - Death and Dying (S-2) | 3 hours**

This course is cross-listed with FMST 450, SOCI 250, SOCI 450, SOCW 250, SOCW 450 and PSYC 250. A student may receive credit for this course from only one program—See SOCI 250 for course description. Lab fee 1 will be assessed for this course.

**FMST 265 - Topics in Family Studies | 1-3 hours**

A study of special topics pertinent to the field of family studies. Content will vary among the various topics, based on interests or needs of students and the School. This course may be repeated for credit.

**FMST 295 - Directed Study | 1-3 hours**

This course permits the advanced student with adequate preparation to pursue independent study in special fields. This course may be repeated for credit.

**FMST 296 - U.S. Study Tour | 1-3 hours**

This course is cross-listed with FMST 496, SOCI 296, SOCI 496, SOCW 296, and SOCW 496. A student may receive credit for this course from only one program—See SOCI 296 for course description. Lab fee 20 will be assessed for this course.

**FMST 349 - Aging and Society (S-2) (W) (SERV-2) | 3 hours**

This course is cross-listed with SOCI 349, SOCW 349, and PSYC 349. A student may receive credit for this course from only one program—The course emphasizes the reciprocal impact of societal attitudes on the process of aging and the increasing influence of “mature citizens” in contemporary society. Historical, demographic, and future trends are explored. A balance between the theoretical and the applied is sought. (Fall, Winter, Summer)

**FMST 356 - Natives and Strangers (I-3a) (W) | 3 hours**

This course is cross-listed with HIST 356 and SOCI 356. A student may receive credit for this course from only one program—See HIST 356 for course description.

**FMST 360 - Family Life Education (S-2) | 3 hours**

This course is cross-listed with SOCI 360 and SOCW 360. A student may receive credit for this course from only one program—A study of existing family life education programs, including computer generated resources. Focus is also given to the design and development of original family life education materials. (Fall)

**FMST 365 - Family Relations (S-2) | 3 hours**

This course is cross-listed with SOCI 365 and SOCW 365. A student may receive credit from only one program—A sociological analysis of family structures and functions. Attention will be given to courtship, family organization and interaction, family disorganization and reorganization, and the post-parental family. Emphasis will be given to findings of recent family studies. (Winter)

**FMST 405 - Sexual Abuse and Awareness Prevention | 1-3 hours**

This course is cross-listed with NRSG 405, PSYC 405, and SOCW 405. A student may receive credit for this course from only one program—This course will focus on various aspects of sexual abuse from a holistic, Christian perspective. Focus will be on awareness and prevention of sexual abuse. Topics include: overview of sexual abuse; rape and family violence; indicators and risk factors; physical and psychological effects; legal implications; disclosure and reporting, pornography and contemporary social issues; breaking the cycle; the role of the church in addressing sexual issues; and relevant community resources and interventions. (Winter)

**FMST 450 - Death and Dying (S-2) | 3 hours**

This course is cross-listed with FMST 250, SOCI 250, SOCI 450, SOCW 250, SOCW 450 and PSYC 250. A student may receive credit for this course from only one program—See SOCI 250 for course description. Lab fee 1 will be assessed for this course.

**FMST 465 - Topics in Family Studies | 1-3 hours**

See FMST 265 for course descriptions.

**FMST 491 - Family Studies Practicum | 1-3 hours**

At least 50 clock hours of work experience are required for each semester hour of credit. May be repeated for credit for up to 3 hours. Grades will be assigned on an A, B, or F basis.

**FMST 495 - Directed Study | 1-3 hours**

See FMST 295 for course description.

**FMST 496 - U.S. Study Tour | 1-3 hours**

This course is cross-listed with FMST 296, SOCI 296, SOCI 496, SOCW 296, and SOCW 496. A student may receive credit for this course from only one program—See SOCI 296 for course description. Lab fee 20 will be assessed for this course.

**Finance****FNCE 265 - Topics in Finance | 1-3 hours**

Prerequisite(s): Permission of the instructor—Selected topics designed to meet the needs or interests of students in specialty areas of business and management. This course may be repeated for credit with permission.

**FNCE 295 - Directed Study | 1-3 hours**

Prerequisite(s): Approval of the Dean of the School—A directed study involves individualized research into a selected topic chosen by the faculty adviser and the student.

**FNCE 315 - Business Finance | 3 hours**

Prerequisite(s): ACCT 312 or ACCT 321—A study of the fundamental principles of financial organization. Emphasis is on instruments of finance, policies of capitalization, problems pertaining to working capital, and corporate expansion and reorganization.

**FNCE 450 - Working Capital Management | 3 hours**

Prerequisite(s): FNCE 315—This course is cross-listed with FNCE 550. A student may receive credit for this course from only one program—Includes topics addressing short-term financial management. In addition, the course covers the cost to benefit trade-offs of liquidity, management of working capital, management and budgeting of cash, and short-term investing and financing issues. (Winter)

**FNCE 452 - Financial Markets, Rates, and Flows | 3 hours**

Prerequisite(s): ECON 224 and FNCE 315—This course is cross-listed with ECON 452 and FNCE 552. A student may receive credit for this course from only one program—See ECON 452 for course description. (Winter)

**FNCE 455 - Fundamentals of Investments | 3 hours**

This course is cross-listed with FNCE 555. A student may receive credit for this course from only one program—A practical, as well as a theoretical, approach is taken for the potential investor of institutional or personal funds through the use of problems, readings, and cases. Topics covered will include stocks and bonds in the security market, real estate, and fixed equipment investments. (Fall)

**FNCE 465 - Topics in Finance | 1-3 hours**

Prerequisite(s): Permission of the instructor—See FNCE 265 for course description.

**FNCE 491 - Finance Practicum | 1-3 hours**

Prerequisite(s): Junior or senior status and permission of a supervising professor. (Registration for this course and an agreement with a supervising professor must be completed prior to beginning the work experience)—A practicum consists of supervised volunteer/work experience in related fields of accounting/finance on a part-time basis. The work may be done at various job sites. A minimum of 50 clock hours of work experience is required for each semester hour of credit. (Note: A maximum of 3 credit hours of practicum and/or internship may apply as an elective in the major.)

**FNCE 492 - Finance Internship | 1-3 hours**

Prerequisite(s): Junior or senior status and permission of a supervising professor. (Registration for this course and an agreement with a supervising professor must be completed prior to beginning the work experience)—An internship consists of on-the-job experience working under supervision in an accounting/finance office on a full-time basis. All hours must be completed on one job site. A minimum of 100 clock hours of work experience is required for each semester hour of credit. (Note: A maximum of 3 credit hours of practicum and/or internship may apply as an elective in the major.)

**FNCE 495 - Directed Study | 1-3 hours**

Prerequisite(s): Approval of the Dean of the School—See FNCE 295 for course description.

**FNCE 497 - Finance Research | 3 hours**

Prerequisite(s): BUAD 221 or MATH 215; FNCE 450—This course permits students to apply principles of research and statistical analysis of data leading to the completion of a research project.

## French

### **FREN 101 - Elementary French I (I-3c) | 3 hours**

This is a foundation course in basic language skills. Students who have any background in French must take the language placement examination. Students should contact department for details on specific scores. This course develops listening and reading strategies with emphasis on oral and written forms of communication. Laboratory work required. Lab fee 3 will be assessed for this course. (Fall)

### **FREN 102 - Elementary French II (I-3c) | 3 hours**

Prerequisite(s): FREN 101 or score a minimum of 296 on placement examination, or approval of the department—This course is a continuation of the development of basic language skills. Written and oral communication is strongly emphasized. It concentrates on developing the ability to use the language creatively to deal with daily life situations within the French-speaking context. Laboratory work required. Lab fee 3 will be assessed for this course. (Winter)

### **FREN 207 - Intermediate French I (I-3c) | 3 hours**

Prerequisite(s): FREN 102 or score a minimum of 356 on placement examination, or approval of the department—Review and expansion of grammar/vocabulary as students develop speaking, writing, reading, and listening skills. Readings and discussions focus on topics related to the culture of the French-speaking world. Laboratory work required. Lab fee 3 will be assessed for this course. (Fall)

### **FREN 208 - Intermediate French II (I-3c) | 3 hours**

Prerequisite(s): FREN 207 or score a minimum of 440 on placement examination or approval of the department—Continues to review and expand student-knowledge of grammar/vocabulary as students develop speaking, writing, reading, and listening skills. Readings and discussions focus on topics related to the culture of the French-speaking world. Laboratory work required. Lab fee 3 will be assessed for this course. (Winter)

### **FREN 244 - French Composition and Conversation | 3 hours**

Prerequisite(s): FREN 208 or approval of the department—Course designed to enhance oral and written proficiency along with vocabulary expansion, and to review grammatical structures. It emphasizes description and narration, extending to the broader French-speaking world. FREN 244 and FREN 344 is a strongly suggested sequence for students who minor in French. (Fall)

### **FREN 265 - Topics in French | 1-3 hours**

Selected topics in French presented in a classroom setting. Subjects covered will determine how the course applies to the major. This course may be repeated for credit.

### **FREN 295 - Directed Study | 1-3 hours**

Emphasizes individual, directed study. Designed for students who want to conduct independent research in a specific subject in the field of modern languages. Faculty will assist student with selection of topic and serve as consultant for the project. This course is limited primarily to the department majors and must be approved by the Chair of Modern Languages.

### **FREN 305 - French for Business | 3 hours**

Prerequisite(s): A minimum of one (1) academic year at Collonges (ACA) prior to taking this course—This course seeks to develop knowledge and proficiency in the French economic and business world. It includes vocabulary review; practice of oral and written expression, marketing, banking, employment, job hunting, interviewing, accounting, and publicity. Written expression of business correspondence is one of the topics discussed.

### **FREN 344 - Advanced French Composition and Conversation | 3 hours**

Prerequisite(s): FREN 208 and FREN 244 or approval of the department—Designed to enhance oral and written proficiency along with vocabulary expansion, and to review grammatical structures. It focuses on *Nous* and *Les Autres*, incorporating description and narration, extending to the broader French-speaking world, incorporating current events and argumentation along with vocabulary study and grammar refinement. FREN 244 and 344 is a sequence particularly suggested for students who minor in French. (Fall)

### **FREN 350 - French Linguistics | 3 hours**

Prerequisite(s): FREN 208 and FREN 244 or equivalent, or approval of the department—An intensive course designed to enhance oral and written proficiency along with vocabulary expansion. It focuses on the study of syntax, morphology, phonetics, and phonology as components of the generative grammar of the French language. Open to eligible students returning from ACA. This course is required for majors in French. (Fall)

**FREN 353 - Contemporary French Culture and Civilization (SERV-2) | 3 hours**

Prerequisite(s): FREN 244 or approval of the department—This course focuses on contemporary French culture and civilization and emphasizes social, political, and artistic trends, and intellectual movements that have contributed to the institutions and character of modern France. Course conducted entirely in French. (Winter)

**FREN 357 - Survey of French Medieval and Renaissance Literature (S-3a) (W) | 3 hours**

Prerequisite(s): FREN 244, ELIT 216 and MDLG 230, or approval of the department—Close reading and discussion of selected works from the period (eleventh through sixteenth centuries) viewed in the socio-historical, intellectual, and artistic context: Chanson de Roland, Roman de Renart, Aucassin et Nicolette, Farce de Maître Pathelin, and works by Chrétien de Troyes, Villon, Rabelais, the Pléiade, and Montaigne.

**FREN 358 - Survey of French 17th and 18th Centuries Literature (S-3a) (W) | 3 hours**

Prerequisite(s): FREN 244, ELIT 216 and MDLG 230, or approval of the department—This course is a study of neo-classical tragedy and comedy as illustrated in select texts of Corneille, Molière, Racine, Marivaux, and Beaumarchais. It experiments in narrative fiction, including works by Mme de Lafayette and Prévost. The art of epistolarity: Pascal and the polemical letter, Mme de Sévigné and the personal letter, Voltaire and the traveler's letter. Focus on topics: préciosité and sensibility; feminism and modernity; rationalism and esprit critique.

**FREN 458 - Survey of French 19th and 20th Centuries Literature (S-3a) (W) | 3 hours**

Prerequisite(s): FREN 244, ELIT 216 and MDLG 230, or approval of the department—Studies the main literary works and currents in the modern era in their historical context. Based on an interdisciplinary approach linking literary theory with history, sociology, and psychology. Works studied: Chateaubriand, Réné; Balzac, Le Père Goriot; Hugo, Hernani; Baudelaire, Les Fleurs du mal; Gide, La Symphonie pastorale; Camus, L'Etranger; Duras, Moderato Cantabile.

**FREN 459 - Francophone Cultures and Literatures (S-3a) (W) | 3 hours**

Prerequisite(s): FREN 244, ELIT 216 and MDLG 230, or approval of the department—This course proposes a cultural and literary journey based on a variety of texts throughout the main French-speaking regions of the world: the African continent, South East Asia, French Canada, Belgium, Switzerland, the French-speaking islands of the Caribbean. This approach is intended to stress and place into perspective these geographical and national entities. Guest-speakers closely related, either as native speakers or by their professional experience to French-speaking Africa, Canada, or the Caribbean will be invited when available.

**FREN 465 - Topics in French | 1-3 hours**

See FREN 265 for course description.

**FREN 490 - Comprehensive Examination Preparation | 1 hour**

This course is designed to provide academic support for French majors who will be taking the MCE required for graduation. One member of the faculty will meet with the student regularly to provide the opportunity to cover material pertinent to this examination. French majors must take this course in the last semester prior to graduation. Results of the MCE will be the final grade for this course.

**FREN 495 - Directed Study | 1-3 hours**

See FREN 295 for course description.

## Geography

**GEOG 204 - World Geography (I-3b) (SERV-2) | 3 hours**

Maps, land forms, soil, mineral resources, weather, and climate are considered. Man's adjustment to various physiographic regions is studied. (Fall)

## Global Policy and Service Studies

**GPSS 110 - Human Rights and Service (I-3b) (SERV-2) | 3 hours**

This course examines the history of human rights and current human rights issues. Best practices of social entrepreneurs in the human rights arena are analyzed. An application is made to how Seventh-day Adventists individually and corporately can relate to human rights issues.

**GPSS 220 - Global Politics (I-3b) | 3 hours**

This course examines the politics of the global arena to foster understanding so that students can better serve the world's inhabitants. A comparison is made between secular international relations theory and a biblical worldview.

**GPSS 250 - Cross-Cultural Experience | 3 hours**

This course offers principles of cultural appropriateness and conflict resolution in the political and developmental arena.

**GPSS 291 - GPS Practicum | 3 hours**

Prerequisite(s): Permission of the instructor—Practicum requirements include at least 150 hours at an organization approved by the course instructor and an in-depth reflection assignment on the practicum.

**GPSS 350 - Sustainability Studies | 3 hours**

Topics include examining sustainable agriculture through the lens of health and education as a means for maintaining ecological, societal, and spiritual balance.

**GPSS 360 - Political Economy | 3 hours**

This course analyzes global economic institution and delves into political and social barriers to economic development. Practical skills in prosperity creation at the micro-level are discussed.

**GPSS 370 - Policies in Global Health (W) | 3 hours**

Topics include best practices in health policy, management, lifestyle medicine, and community based development.

**GPSS 490 - Senior Capstone | 1 hour**

For the Senior Capstone students research, write, and defend a senior thesis on a global policy and service topic. Students are also exposed to professional opportunities in the global arena and best practices in global Christian service.

**GPSS 491 - GPS Practicum | 3 hours**

Prerequisite(s): Permission of the instructor—Practicum requirements include at least 150 hours at an organization approved by the course instructor and an in-depth reflection assignment on the practicum.

**German****GRMN 101 - Elementary German I (I-3c) | 3 hours**

A foundation course in the basic language skills. Laboratory work is required. Students who have not taken any German language must enroll in GRMN 101. This course develops listening and reading strategies with an emphasis on oral and written forms of communication. Lab fee 3 will be assessed for this course. (Fall)

**GRMN 102 - Elementary German II (I-3c) | 3 hours**

Prerequisite(s): GRMN 101 or approval of the department—This course is a continuation of the development of basic language skills. Oral and written communication are strongly emphasized. Laboratory work is required. Those students who have any background in German must seek departmental permission to enroll in any German course other than GRMN 101. Lab fee 3 will be assessed for this course. (Winter)

**GRMN 207 - Intermediate German I (I-3c) | 3 hours**

Prerequisite(s): GRMN 102 or approval of the department—Continued emphasis on the development of listening and speaking skills. There is, however, an increased emphasis on reading and writing skills through short selections in German. Laboratory work is required. Students may receive credit by passing a "Challenge Examination" with a grade of B or better. For information on the examination, students should refer to Southern's Catalog (p. 44) and/or Modern Languages faculty for details. Those students who have any background in German must seek departmental permission to enroll in any German course other than GRMN 101. Lab fee 3 will be assessed for this course. (Fall)

**GRMN 208 - Intermediate German II (I-3c) | 3 hours**

Prerequisite(s): GRMN 207 or approval of the department—This course maintains a strong emphasis on listening and speaking skills. Through reading of more extensive texts and informal writing as a support for speaking, it develops oral fluency toward more effective narrative. Laboratory work is required. Students may receive credit by passing a "Challenge Examination" with a grade of B or better. For information on this examination, students should refer to Southern's Catalog and/or Modern Languages faculty for details. Those students who have any background in German must seek departmental permission to enroll in any German course other than GRMN 101. Lab fee 3 will be assessed for this course. (Winter)

**History****HIST 154 - American History and Institutions I (I-3a) | 3 hours**

An introductory survey of the nation from colonial times to reconstruction. The development of its politics, government and social institutions is covered in each semester of the sequence. This course is recommended as general education for freshmen and sophomores. (Fall, Winter, Summer)

**HIST 155 - American History and Institutions II (I-3a) | 3 hours**

An introductory survey of the nation from reconstruction to the present. The development of its politics, government and social institutions is covered in each semester of the sequence. This course is recommended as general education for freshmen and sophomores. (Fall, Winter, Summer)

**HIST 174 - World Civilizations I (I-3a) | 3 hours**

A study of the development of Western and non-Western culture and government, emphasizing the evolution of European society and its interaction with non-European civilizations. This course is recommended as general education for freshmen and sophomores.

**HIST 175 - World Civilizations II (I-3a) | 3 hours**

A study of the development of Western and non-Western culture and government, emphasizing the evolution of European society and its interaction with non-European civilizations. This course is recommended as general education for freshmen and sophomores.

**HIST 265 - Topics in History | 3 hours**

Selected topics in history presented in classroom setting. Subjects covered will determine whether credit is granted in Area I or Area II. This course may be repeated for credit.

**HIST 278 - History of Western Architecture | 3 hours**

Prerequisite(s): ENGL 102 with a grade of C- or better—This course is cross-listed with TECH 278. A student may receive credit for this course from only one program—Studies of the history of western architecture and urban design. Focus on religious and secular monuments and their settings. Domestic architecture and infrastructure, regional constructional, and compositional traditions from ancient, medieval, and Renaissance through to the 20th century.

**HIST 294 - International Study Tour | 3 hours**

Study tours led by historians outside the United States of America will combine tourism with reading and writing based on primary and/or secondary texts which support the study of the places being visited.

**HIST 295 - Directed Study | 1-3 hours**

A course emphasizing individual directed study. The instructor to whom a student is assigned will determine whether credit is upper or lower division. This course also includes credit offered by the History Department on directed study tours. Writing emphasis credit for HIST 495 only. Approval of the department is required prior to registration.

**HIST 296 - U.S. Study Tour | 3 hours**

Study tours led by historians in the United States of America will combine tourism with reading and writing based on primary and/or secondary texts which support the study of the places being visited.

**HIST 297 - Historiography (SERV-2) | 2 hours**

A course examining historiography, which is the study of historical consciousness and historical writing. The class will focus on Western historiography (classical, European, and the United States). General education credit will not be given.

**HIST 345 - Middle Eastern Politics and History (I-3a) (W) | 3 hours**

This course is cross-listed with PLSC 345. A student may receive credit for this course from only one program—This course traces the major religious and political developments in the Middle East from the rise of Islam through the twentieth century. Any or all of the following topics may be included: Islamic empires; Crusades; Ottoman nationalism; Islam's encounter with the West; the issue of Islamic-Arab nationalism.

**HIST 351 - Colonial Latin America (I-3a) (W) | 3 hours**

Set in the context of Spanish empire and imperial ideology, the course begins with the cultural legacy of high pre-Columbian civilizations in Latin America and traces the interaction of the native people with Spanish exploration and conquest. It focuses primarily on Spanish political and social organization, the responses of the native people to growing Spanish political hegemony, and the gradual development of theories of race, empire, faith which culminated in a recognizably unified Spanish American world.

**HIST 353 - From Colony to Nation (I-3a) (W) | 3 hours**

A detailed survey of American political and social history from 1607 to 1800, including the founding of the thirteen colonies, the American Revolution, and the establishment of the new nation.

**HIST 355 - History of the South (I-3a) (W) | 3 hours**

A study of the American South from the Early National period through Reconstruction. Prominent issues will include slavery, sectionalism, the Civil War, and Reconstruction.

**HIST 356 - Natives and Strangers (I-3a) (W) | 3 hours**

This course is cross-listed with FMST 356 and SOCI 356. A student may receive credit for this course from only one program—A study of immigration and the role of ethnic groups in American society. Special emphasis on the tension between assimilation and pluralism in the national character.

**HIST 357 - Modern America (I-3a) (W) | 3 hours**

A study of American History from 1900 on with special examination of the progressive era, normalcy, the depression, the New Deal, and the role of the United States in world affairs.

**HIST 359 - Transformation of American Culture (I-3a) (W) | 3 hours**

A topical approach to nineteenth and twentieth-century American history, focusing on the modernization of life. Among the topics that may be covered are entertainment, the media, urban culture, social relations, transportation, and art and architecture.

**HIST 364 - Christian Church I: From the Early Church Through the Middle Ages (I-3a) (W) | 3 hours**

A study of the history of western Christianity from the end of the apostolic period to the end of the Middle Ages, emphasizing both institutional and theological development. (Fall)

**HIST 365 - Christian Church II: From the Reformation Through the Twentieth Century (I-3a) (W) | 3 hours**

A study of the reorientation of western Christianity, beginning with the Protestant Reformation and culminating with contemporary religious trends. (Winter)

**HIST 374 - History of England (I-3a) (W) | 3 hours**

A survey of the history of Great Britain from Roman times to the twentieth century, emphasizing political, cultural, and economic developments which have influenced western civilization as a whole.

**HIST 375 - Ancient Mediterranean World (I-3a) (W) | 3 hours**

A study of the three stages of ancient civilization, the Ancient Near East, Greece, Rome, and the contribution each has made to the development of western culture.

**HIST 380 - Pirates, Captives, and Slaves in the Early Modern World (I-3a) (W) | 3 hours**

A survey of piracy and slavery in the Atlantic, Mediterranean and Indian Ocean worlds from 1500 to 1750. Readings will include personal captivity narratives as well as biographies of pirates and histories of the slave trade.

**HIST 386 - Medieval Europe (I-3a) (W) | 3 hours**

A study of European history from the fall of Rome to the beginning of the modern age, focusing on those developments which have influenced the institutions and values of modern western civilization. The chronological emphasis is on the eleventh through the sixteenth centuries.

**HIST 387 - Europe in the Nineteenth Century (I-3a) (W) | 3 hours**

A study of Europe's "long century," from the French Revolution of 1789 to the beginning of World War I in 1914. The course traces Europe's development from a predominantly aristocratic and agricultural culture to an emerging democratic and industrial civilization, devoting particular attention to cultural and social changes.

**HIST 388 - Contemporary Europe (I-3a) (W) | 3 hours**

This course is cross-listed with PLSC 388. A student may receive credit for this course from only one program—An assessment of political developments and international relations since the outbreak of World War I. Such antithetical forces as peace and war, power and weakness, and sovereignty and dependence are studied in their historical setting. Students may earn either history or political science credit, depending on individual assignments.

**HIST 389 - History of the Holocaust (I-3a) (W) | 3 hours**

A study of the historical and social circumstances leading to and surrounding the Jewish Holocaust. This course explores several theories of the event.

**HIST 465 - Topics in History [465 typically qualifies as a (W) course] | 3 hours**

See HIST 265 for course description.

**HIST 471 - Classics of Western Thought I (I-3a) (W) | 3 hours**

Prerequisite(s): Permission of Instructor—This course is cross-listed with PLSC 471. A student may receive credit for this course from only one program—A study of the key thinkers in western thought from the Heroic Age of Greece to the Renaissance. Reading from original sources, this class will emphasize the discussion and analysis of ideas that have formed the basis of western thought. Included in the

readings are selections from Herodotus, Cicero, St. Augustine, Boccaccio, Montaigne, and St. Ignatius of Loyola.

**HIST 472 - Classics of Western Thought II (I-3a) (W) | 3 hours**

Prerequisite(s): Permission of Instructor—This course is cross-listed with PLSC 472. A student may receive credit for this course from only one program—A study of the key thinkers in the nineteenth and twentieth centuries. Reading from original sources, this class will emphasize discussion of critical ideas that have effected the evolution of contemporary social and political thought. Included in the readings are selections from Locke, Mill, Marx, Nietzsche, Lenin, and Hitler.

**HIST 490 - Senior Exam Preparation | 1 hour**

Independent Study and reading in preparation for the one hour oral assessment exam taken by senior history majors. A student may earn a grade of Honors (“A” on the transcript), Pass or Fail. One must earn at least a “Pass” in order to graduate with a history major.

**HIST 494 - International Study Tour | 3 hours**

See HIST 294 for course description.

**HIST 495 - Directed Study (W) | 1-3 hours**

See HIST 295 for course description.

**HIST 496 - U.S. Study Tour | 3 hours**

See HIST 296 for course description.

**HIST 497 - Research Methods in History (W) | 3 hours**

Prerequisite(s): HIST 297; Word processing and familiarity with Internet searches are prerequisites to this course; Students must have completed at least one writing (W) class—Historical theories, procedures, and research methods are examined in conjunction with the preparation of a research project using primary sources. No general education credit given. (Fall)

## Health Education

**HLED 129 - Introduction to Wellness | 2 hours**

This course provides an overview of the wellness profession including its history, current trends, opportunities, and exposure to the wellness thought process. An understanding of the philosophical underpinnings of the wellness profession is explored and developed. This course requires ten (10) hours of field based experience. (Fall)

**HLED 173 - Health for Life (P-2) | 2 hours**

The study of the six dimension of health forms the foundation of this course. The health dimensions are: Physical, social, spiritual, psychological, intellectual, and environmental. The class focus will be to integrate healthful living with today’s scientific research and Christianity into a balanced lifestyle. Specific topics include: Alcohol, tobacco, and drugs; mental health; weight management; fitness; human sexuality; safety; nutrition; and stress. Perspectives of health, particularly from Ellen G. White, and others will be explored.

**HLED 229 - Wellness Applications | 2 hours**

Learn how to live life with more passion, peace, purpose, and vitality. Learn how to bring more balance into your life through a practical application of the principles of wellness. This course teaches what wellness is by empowering the student to personally apply the tools of wellness. These tools encourage the development of the dynamic potential of body, mind, and spirit. This in turn brings about a balanced development of the whole person. (Winter)

**HLED 265 - Topics in Health Education | 1-3 hours**

Topics selected from areas of health education not covered in other courses. This course may be repeated for credit.

**HLED 356 - Drugs and Society | 2 hours**

A course focusing on the use and abuse of drugs in our society. Emphasis on strategies to assist future health promoters in recognition, intervention, and prevention of substance abuse. Oral presentation required. (Fall)

**HLED 373 - Prevention and Care of Athletic Injuries | 2 hours**

Investigations into the prevention, care, and proper management of injuries related to athletics. Lab fee 6 will be assessed for this course. (Winter)



**HLED 465 - Topics in Health Education | 1-3 hours**

Topics selected from areas of health education not covered in other courses. This course may be repeated for credit.

**HLED 470 - Current Issues in Health | 2 hours**

This seminar course is designed to assist students in becoming knowledgeable regarding health issues of our time. Library research and class presentations are required. Discussion and problem solving are emphasized. A major part of the class focuses on the need of a spiritual component in establishing a healthful and balanced lifestyle. (Winter)

**HLED 473 - Health Education Methods | 2 hours**

Prerequisite(s): HLED 173—A study of the theoretical and scientific basis of health education with emphasis on the development and organization of the school health instruction program. Two oral presentations required. (Fall)

**HLED 476 - Wellness Methods, Materials, and Management | 3 hours**

A course in planning, implementing and evaluating; work-site and community health promotion activities, including stress management, smoking cessation, cardiovascular fitness, body composition, and cholesterol testing. Oral presentation required. (Winter)

**HLED 491 - Wellness Practicum | 2 hours**

The student will work at a wellness facility for not less than 100 clock hours gaining experience with equipment, observing facility scheduling and management, and interacting with clients. Arrangements are made in advance with the school dean. (Fall, Winter, Summer)

**Nutrition for Life****HLNT 130 - Nutrition for Life (P-2) | 2 hours**

A general education course that covers the basic principles of human nutrition. Includes the study of nutrients and the requirements for different age groups and normal physiological conditions. Attention will be given to religious and sociological influences, taking particular note of the counsel of E.G. White.

**HLNT 135 - Nutrition for Life--Enhanced (P-2) | 3 hours**

A course introducing students to the basic principles of human nutrition. Includes study of the nutrients and the requirements for different age groups and normal physiological conditions, and goes into detail in areas of nutrition relating to chronic diseases, eating disorders, obesity, sports and supplements. Attention will be given to religious and sociological influences, taking particular note of the counsel of E. G. White.

**HLNT 265 - Topics in Nutrition | 1-3 hours**

Topics selected from areas of nutrition not covered in other courses. This course may be repeated for credit.

**HLNT 348 - Food Preparation | 3 hours**

A course designed to develop understanding, skills, and philosophy regarding healthy food preparation to include but not limited to breads, cereals, salads, entrees, soups, and desserts. A vegan/vegetarian perspective will be emphasized. Lab fee 9 will be assessed for this course.

**HLNT 365 - Topics in Nutrition | 1-3 hours**

Topics selected from areas of nutrition not covered in other courses. This course may be repeated for credit.

**Humanities****HMNT 150 - International Travel | 1 hour**

One credit hour is available to participants in college tours outside the United States. The trip must last seven days excluding travel to and from the tour location, and must include a minimum of 20 hours in museums, historical sites, concerts, drama, and sightseeing. Students will submit written summaries/reflections of their experiences. Credit for this course is not granted simultaneously with credit earned in other tour classes.

**HMNT 205 - Arts and Ideas (S-3b) | 3 hours**

This class is administered by the History Department—A cultural appreciation class tracing the historical evolution of intellectual movements in western civilization. Ideas from leaders in philosophy and the arts will be studied with appropriate works from music, art, and literature. Students may participate in activities involving specific art forms. Resource persons may assist as available. This course is also offered by the History Department as part of the European study tour program during selected summer sessions.

**HMNT 210 - Introduction to Philosophy (I-3a) | 3 hours**

An introduction to the major schools of Western philosophy, e.g. Platonic, Aristotelian, Medieval, Enlightenment, Hegelian, Analytical. The course will suggest how philosophy can help students think more critically and coherently. Issues of logic, epistemology, freedom of will, and ethics will be explored.

**HMNT 251 - Sophomore Honors Seminar | 1 hour**

A study of values and ethics. Required of students in the Southern Scholars program during their sophomore year. Open to other students with permission of program director.

**HMNT 252 - Sophomore Honors Seminar | 1 hour**

A study of values and ethics. Required of students in the Southern Scholars program during their sophomore year. Open to other students with permission of program director.

**HMNT 295 - Directed Study | 1-3 hours**

A course emphasizing individual directed study. The instructor to whom a student is assigned will determine whether credit is upper or lower division. Approval of the department is required prior to registration.

**HMNT 350 - International Travel | 1 hour**

See HMNT 150 for course description.

**HMNT 451 - Honors Seminar | 1 hour**

A study of great books in religion, philosophy, science and social science that have shaped western culture. Required of students in the Southern Scholars program during their junior or senior year. Open to other students with permission of program director. A complete tuition waiver for this class applies to Southern Scholars students only. Refer to finance section of the Catalog.

**HMNT 452 - Honors Seminar | 1 hour**

A study of great books in religion, philosophy, science and social science that have shaped western culture. Required of students in the Southern Scholars program during their junior or senior year. Open to other students with permission of program director. A complete tuition waiver for this class applies to Southern Scholars students only. Refer to finance section of the Catalog.

**HMNT 495 - Directed Study | 1-3 hours**

See HMNT 295 for course description.

**Italian****ITAL 101 - Elementary Italian I (I-3c) | 3 hours**

Introduces students to the basic principles of the language necessary for written and oral communication. Emphasis placed on developing the ability to use the language creatively to talk about oneself and to deal with daily life situations within the Italian cultural context. Laboratory work required. (Available only through Adventist Colleges Abroad [ACA]. Lab fee 3 will be assessed for this course. (Fall)

**ITAL 102 - Elementary Italian II (I-3c) | 3 hours**

Prerequisite(s): ITAL 101 or approval of the department—Continues ITAL 101. This course further develops the student's ability to communicate in Italian, both orally and in writing. Students will speak, read, and write about such topics as advice and opinions, the future, and hypothetical situations, while at the same time gaining insights into the culture of Italy. Laboratory work required. (Available only through Adventist Colleges Abroad [ACA]. Lab fee 3 will be assessed for this course. (Winter)

**ITAL 207 - Intermediate Italian I (I-3c) | 3 hours**

Prerequisite(s): ITAL 102 or approval of the department—This course requires a fairly good foundation in the basic principles of the language. Students improve their communication skills by discussing and writing about various topics drawn from readings focused on Italian culture. Review of grammar is included. Laboratory work required. (Available only through Adventist Colleges Abroad [ACA]). Lab fee 3 will be assessed for this course.

**ITAL 208 - Intermediate Italian II (I-3c) | 3 hours**

Prerequisite(s): ITAL 207 or approval of the department—Continues ITAL 207 and requires a good foundation in the basic principles of the language. Students improve their communication skills by discussing and writing about various topics drawn from readings focused on Italian culture. Although review of grammar is included, it is not necessarily stressed. Laboratory work required. (Available only through Adventist Colleges Abroad [ACA]). Lab fee 3 will be assessed for this course.

## Journalism

### **JOUR 105 - Writing for the Media | 3 hours**

Prerequisite(s): ENGL 101; ACT English minimum score of 18—Basic writing skills for newspaper, magazines, advertising, public relations, online and broadcasting, with emphasis on learning the Associated Press Stylebook.

### **JOUR 175 - Communication Workshop | 1-3 hours**

One semester-hour credit will be available for 40 clock hours of active participation in workshops conducted by the School in such areas as free-lance writing, news writing, video production, editing newsletters, crisis communication, public relations writing, fund raising, writing for student publications, editing student publications, and advising student publications. Advanced students may earn additional credits by completing a project started during the workshop. May be repeated for credit. (Summer)

### **JOUR 205 - News Reporting | 3 hours**

Prerequisite(s): JOUR 105—News gathering and research techniques; development of news writing skills and style. Emphasis on clarity of writing, accuracy, balance and fairness, and on meeting deadlines. Students are required to contribute bi-weekly stories to the University's newspaper, The Southern Accent. Oral communication emphasis: Interviewing.

### **JOUR 208 - Publication Tools and Techniques | 3 hours**

An introductory course in using computer-based tools in the creation of publications such as newsletters, brochures and magazines. The course integrates elements of design with specialized software packages including Photoshop and InDesign in order to prepare photographs, illustrations and text for publication. Lab fee 8 will be assessed for this course.

### **JOUR 242 - Intro to Web Design | 3 hours**

Prerequisite(s): JOUR 208 or CPTR 110—This course introduces the student to Web design theory and techniques. Students will learn how to use this medium effectively as well as learn how it differs from other more traditional media. Besides learning basic design elements and Web writing, students will be introduced to HTML programming and CSS Web page creation utilizing Photoshop and Dreamweaver. Lab fee 7 will be assessed for this course.

### **JOUR 245 - Senior Project | 1 hour**

Prerequisite(s): Senior standing—This student-selected, school-approved project demonstrates the student's ability to perform in his/her major field. Students in this course meet with their supervising professor as needed. A written proposal for a project must be submitted to the advising professor by three weeks into the term. Lab fee 5 will be assessed for this course.

### **JOUR 265 - Topics in Communication | 1-3 hours**

Selected topics in journalism or related areas of communication.

### **JOUR 291 - Practicum | 1-3 hours**

Prerequisite(s): Consent of instructor before arranging for practicum—Supervised work experience in writing or journalism. At least 90 clock hours of work experience are required for each semester hour of credit. Procedures and guidelines are available from the School.

### **JOUR 295 - Directed Study | 1-4 hours**

For students who want to do independent research and writing in a specialized area of the mass media. Directed study topics will be selected with guidance from the instructor who will serve as a consultant to the student in carrying out the project.

### **JOUR 313 - Publication Editing | 3 hours**

Prerequisite(s): JOUR 205, JOUR 208—Students will learn to edit according to the Associated Press Stylebook; write effective headlines and photo captions; select articles, photos, graphics and typefaces; become familiar with legal issues and tools that assist in research and fact verification; evaluate press estimates; and stay within budget. Use of color and the differences between editing for newspapers, magazines, and newsletters will be considered. Students will produce a newsletter and develop editing skills through various projects.

### **JOUR 315 - Photojournalism | 2-3 hours**

Prerequisite(s): PHTO 125—This course is cross-listed with PHTO 315. A student may receive credit for this course from only one program—Advanced digital photography with emphasis on photojournalism, studio and corporate photography. The major focus will be on using the camera in producing photo essays and photo collections for exhibit. The course will focus on digital techniques—including film scanners, digital processing using Photoshop, and preparing digital photos for publication. Students registering for 3 hours credit will complete additional laboratory and field work. Lab fee 10 will be assessed for this course. Limited supply of digital cameras are available for a \$100 rental fee.

**JOUR 316 - Magazine and Feature Article Writing (W) | 3 hours**

Prerequisite(s): JOUR 205—The study and practice of researching, writing, and marketing non-fiction feature stories for magazines, newspapers, and other periodicals. Discusses the writing process from idea development and story focus through final revision and marketing of articles via query letters to editors.

**JOUR 342 - Interactive Journalism | 3 hours**

Prerequisite(s): JOUR 205, JOUR 242—This course teaches modern journalists to tell interactive stories using new, emerging media—working with audio, video, photography, and web technology. The course builds on skills taught in News Reporting and Introduction to Web Design. Lab fee 10 will be assessed for this course. (Winter, odd years)

**JOUR 356 - Investigative Reporting (W) | 3 hours**

Prerequisite(s): JOUR 205—Students learn in-depth research and interviewing skills. Emphasis on public affairs reporting including assigned articles in politics, government, law enforcement, society, science, medicine, education, religion, the arts, and business. Also includes an introduction to computer-assisted reporting. (Fall, even years)

**JOUR 391 - Practicum | 1-3 hours**

Prerequisite(s): Consent of instructor before arranging for practicum—See JOUR 291 for course description.

**JOUR 427 - Mass Media Law and Ethics | 3 hours**

Study of the legal, ethical and constitutional issues affecting the media and the news gathering and dissemination process. Concepts of libel, privacy, free press, fair-trial, contempt of court, access to information, protection of sources, copyright law, and government regulation of the media.

**JOUR 445 - Senior Project | 1 hour**

Prerequisite(s): Senior standing—See JOUR 245 for course description. Lab fee 5 will be assessed for this course.

**JOUR 465 - Topics in Communication | 1-3 hours**

See JOUR 265 for course description.

**JOUR 475 - Communication Workshop | 1-3 hours**

See JOUR 175 for course description.

**JOUR 488 - Mass Communication and Society (W) | 3 hours**

This course provides for informed student participation in the examination of the role and function of the mass media system in the United States. Among the topics considered are: the concept of social responsibility as a constraint upon the media; and ethical, social, economic and political issues involved in the function of newspapers, magazines, radio, television, new media advertising, and public relations. Emphasis on reading, writing media critiques, and on analysis of concepts and ideas.

**JOUR 492 - Journalism Internship | 3 hours**

Prerequisite(s): Completion of half the requirements for a major or minor in broadcast or journalism and School approval before arranging for internship—Students work at a newspaper, magazine, broadcast station, or other agency to obtain on-the-job journalism experience, preferably during an 8 to 12 week period the summer between the junior and senior year when no other college course is taken. At least 300 clock hours of work experience are required. Procedures and guidelines are available from the School.

**JOUR 495 - Directed Study | 1-4 hours**

For students who want to do independent research and writing in a specialized area of the mass media. Directed study topics will be selected with guidance from the instructor who will serve as a consultant to the student in carrying out the project.

## Library

**LIBR 265 - Topics in Library | 1-3 hours**

Selected topics designed to meet the needs or interests of students in specialty areas of the library. This course may be repeated for credit with permission.

**LIBR 465 - Topics in Library | 1-3 hours**

Selected topics designed to meet the needs or interests of students in specialty areas of the library. This course may be repeated for credit with permission.

## Long Term Care Administration

### **LTCA 265 - Topics in Long Term Care Administration | 1-3 hours**

Prerequisite(s): Permission of the instructor—Selected topics designed to meet the needs or interests of students in specialty areas of business and management. This course may be repeated for credit with permission.

### **LTCA 295 - Directed Study | 1-3 hours**

A directed study involves individual research work open only to business majors. Content to be arranged. Approval must be secured from Dean of the School prior to registration.

### **LTCA 431 - General Administration of the Long Term Care Facility I | 3 hours**

Prerequisite(s): MGNT 464 or permission of LTCA program director—Introduces the mission, values, organization, and strategies of nursing homes and other organizations in the long term care field and reviews their history and philosophy. Applies the concepts of management to the areas of staffing, governance, operations, and physical environment of the care facility. Reviews the regulations for licensing, operating, and insuring various risks within the regulatory setting of the industry. Lab fee 5 for the Long-Term Membership fee (in ACHCA) will be assessed for this course. (Summer, on campus/Fall, online)

### **LTCA 432 - General Administration of the Long Term Care Facility II | 3 hours**

A detailed study of the technical aspects of long term care administration and their relationship to other health care facilities in the total health care system, and technically related medical relationships and services. A complete review of applicable federal requirements is included. (Summer, on campus/Fall, online)

### **LTCA 434 - Financial Management of the Long Term Care Facility | 3 hours**

Prerequisite(s): ACCT 321, FNCE 315 or permission of instructor—A review of techniques and interpretation of financial information for management decision making in the long term care facility. (Summer, on campus/Winter, online)

### **LTCA 435 - Human Resource Management and Marketing of the Long Term Care Facility | 3 hours**

Prerequisite(s): MGNT 344 or permission of LTCA program director—A study of the organization, training, motivation, and direction of employees with a view to maintaining their productivity and morale at a high level. Selection, compensation, financial incentives, work standards, and leadership are the topics that will be covered. Marketing functions, problems, services, and competitive practices will also be covered. (Summer, on campus/Winter, online)

### **LTCA 465 - Topics in Long Term Care Administration | 1-3 hours**

Prerequisite(s): Permission of the instructor—See LTCA 265 for course description.

### **LTCA 492 - Long Term Care Administration Internship (SERV-2) | 4-8 hours**

Prerequisite(s): LTCA 431, LTCA 432, LTCA 434, LTCA 435 or permission of LTCA program director—The internship is a tailored program of 650-1000 clock hours of management training experience in a long term care facility approved by the University. The hours are determined by the minimum required by the state in which the student wants to be licensed. The program director or designee will make scheduled on-site evaluation visits. The student is responsible for arranging the time of visits with the facility management. Three reports must be submitted at each 100-hour interval: a written narrative description of the experience, an intern's report form, and an administrator's report and evaluation form. These are described in the Long Term Care Internship Manual.

### **LTCA 495 - Directed Study | 1-3 hours**

See LTCA 295 for course description.

### **LTCA 497 - Long Term Care Administration Research | 3 hours**

Prerequisite(s): BUAD 221 or MATH 215; LTCA 431, LTCA 432, LTCA 434, LTCA 435, or permission of LTCA program director—This course permits students to apply principles of research and statistical analysis of data leading to the completion of a research project.

## Mathematics

### **MATH 080 - Elementary Algebra | 3 hours [Non-Credit]**

This remedial course covers the content of first-year high school algebra. It is required of all students whose ACT math standard score is 15 or below. Tuition for three semester hours will be charged for this course. (Fall)

**MATH 111 - Survey of Mathematics (I-2a) | 3 hours**

Prerequisite(s): A minimum ACT math standard score of 16 or SAT score of 390 or MATH 080 with a grade of C- or better—Topics include geometry, right triangle trigonometry, statistics, probability, the metric system, and measurement. Other topics chosen from financial management, set theory, logic, and graph theory. This course does not apply on a major or minor in mathematics.

**MATH 116 - College Algebra (I-2a) | 3 hours**

Prerequisite(s): A minimum ACT math standard score of 16 or SAT score of 390 or MATH 080 with a grade of C- or better—Real numbers and their properties; exponents and radicals; polynomials and factoring; rational expression manipulation; linear equations and inequalities; functions including algebraic, rational, logarithmic, exponential; basic graphing techniques; inverse functions; systems of linear equations. This course does not apply on a major or minor in mathematics. (Fall, Winter, Summer)

**MATH 120 - Precalculus Algebra (I-2a) | 3 hours**

Prerequisite(s): A minimum ACT math standard score of 22 or SAT score of 520, or MATH 116 with a grade of C or better—The real and complex number systems; algebraic equations and inequalities; functions and their graphs including polynomial, rational, exponential, and logarithmic functions; inverse functions and their graphs; conic sections; systems of equations; matrices; sequences; the binomial theorem. Special emphasis will be given to problems and techniques that relate to calculus. This course does not apply on a major or minor in mathematics. (Fall, Winter, Summer)

**MATH 121 - Precalculus Trigonometry (I-2a) | 2 hours**

Pre or Co-requisite: MATH 120 or equivalent—The trigonometric and inverse trigonometric functions and their graphs, trigonometric equations and identities, trigonometric form of complex numbers, vectors, and other applications. This course does not apply on a major or minor in mathematics. (Fall, Winter)

**MATH 191 - Calculus I | 4 hours**

Prerequisite(s): MATH 120 or equivalent—Pre- or Co-requisite: MATH 121 or equivalent—Differential and integral calculus of the elementary functions including limits, continuity, the derivative, computation of derivatives, applications of the derivative, the definite integral, the fundamental theorem of calculus, computation of antiderivatives, applications of the definite integral.

**MATH 192 - Calculus II | 4 hours**

Prerequisite(s): MATH 191—Precise definitions of limits, further topics in differential and integral calculus, polar coordinates, analytic geometry, parametric equations, sequences, infinite series, Taylor series. (Winter)

**MATH 200 - Elementary Linear Algebra | 2 hours**

Prerequisite(s): MATH 191—Systems of linear equations, matrices and determinants, vector spaces, linear transformations, eigenvalues and eigenvectors, applications. (Winter)

**MATH 201 - Intermediate Linear Algebra | 3 hours**

Prerequisite(s): MATH 191—Systems of linear equations, matrices and determinants, vector spaces, linear transformations, eigenvalues and eigenvectors, orthogonality and inner product spaces, applications. (Winter)

**MATH 205 - Tutoring in Mathematics (SERV-2) | 1 hour**

Prerequisite(s): Mathematics majors; MATH 192—This course is a service learning course designed to help students become effective peer tutors.

**MATH 215 - Statistics (I-2a) | 3 hours**

Prerequisite(s): An ACT mathematics standard score of 18 or above, MATH 111, or MATH 116—An introduction to descriptive and inferential statistics including organization and analysis of data, elementary probability, probability distributions (binomial, normal, Student's t, chi-square), estimation, hypothesis testing, correlation and regression. (Fall, Winter)

**MATH 218 - Calculus III | 4 hours**

Prerequisite(s): MATH 192—Partial derivatives, multiple integrals, vector calculus including Green's theorem, Stokes's theorem, and the divergence theorem. (Fall)

**MATH 219 - Set Theory and Logic | 3 hours**

Prerequisite(s): MATH 191—An introduction to the ideas, terminology, and notation of logic, sets, equivalence relations, and functions. The concept of a mathematical proof will be emphasized. (Winter)

**MATH 265 - Topics in Mathematics | 1-3 hours**

Prerequisite(s): Permission of the instructor—Topics selected from areas of mathematics not covered in other courses. This course may be repeated for credit with permission.

**MATH 280 - Discrete Mathematical Structures | 3 hours**

Prerequisite(s): MATH 120 or equivalent; Familiarity with a programming language—An examination of many of the mathematical concepts of particular use to computer scientists. The topics include set theory, relations, graph theory, combinatorics, Boolean algebra, digital logic and circuit design, proof techniques, and finite state automata. (Fall)

**MATH 295 - Directed Study | 1-3 hours**

Prerequisite(s): Approval by department faculty—Individual reading and problem solving in a field chosen in consultation with an instructor. This course may be repeated for credit. (On demand)

**MATH 305 - Tutoring in Mathematics (SERV-2) | 1 hour**

Prerequisite(s): Mathematics majors who have successfully completed MATH 218—This course is a service learning course designed to help students become effective peer tutors.

**MATH 312 - History of Mathematics (W) | 3 hours**

Prerequisite(s): MATH 192; MATH 219 or MATH 280—A survey of the development of classical mathematics from ancient times to calculus, together with selected topics from the history of modern mathematics. (Fall, odd semesters)

**MATH 315 - Differential Equations | 3 hours**

Prerequisite(s): MATH 192—Introduction to dynamical systems, solutions of various types of ordinary differential equations, systems of linear differential equations, the Laplace transform, applications to problems in the physical sciences. (Winter)

**MATH 316 - Partial Differential Equations | 3 hours**

Prerequisite(s): MATH 315—This course is cross-listed with PHYS 316, Physics Department. A student may receive credit for this course from only one program—Partial differential equations, Fourier series, boundary value problems, Bessel functions, Legendre polynomials. (Fall, even years)

**MATH 317 - Complex Variables | 3 hours**

Prerequisite(s): MATH 218, MATH 219—An introduction to the theory of analytic functions of a complex variable, including mappings by elementary functions, complex integration, the Cauchy-Goursat theorem, Cauchy's integral formula, power series, Laurent series, the theory of residues, and conformal mapping. (Winter, even years)

**MATH 318 - Abstract Algebra | 3 hours**

Prerequisite(s): MATH 218, MATH 219—The structure of groups, rings, integral domains, and fields. (Fall, even years)

**MATH 325 - Probability Theory | 3 hours**

Prerequisite(s): MATH 192—Basic probability theory, combinatorial problems, independence and dependence, numerical-valued random phenomena, mean and variance of a probability law, normal, Poisson, and related probability laws. (Fall, even years)

**MATH 411 - Intermediate Analysis I | 3 hours**

Prerequisite(s): MATH 218, MATH 219—The real number system, sequences, limits and metric spaces, continuity, uniform continuity, introduction to point set topology, properties of the derivative and integral, convergence and uniform convergence of sequences and series of functions, orderings. (Fall, odd years)

**MATH 412 - Intermediate Analysis II | 3 hours**

Prerequisite(s): MATH 218, MATH 219, MATH 411—The real number system, sequences, limits and metric spaces, continuity, uniform continuity, introduction to point set topology, properties of the derivative and integral, convergence and uniform convergence of sequences and series of functions, orderings. (Winter, even years)

**MATH 415 - Geometry | 3 hours**

Prerequisite(s): MATH 219—Topics selected from the following: Euclidean geometry, axiomatic systems and finite geometries, transformational geometry, hyperbolic geometry, projective geometry, other non-Euclidean geometries, applications of geometry. (Fall, odd years)

**MATH 465 - Topics in Mathematics | 1-3 hours**

Prerequisite(s): Permission of the instructor—See MATH 265 for course description.

**MATH 485 - Mathematics Seminar (W) | 1 hour**

Prerequisite(s): Permission of mathematics staff—Written and oral reports are made on a variety of topics in mathematics including topics in current mathematical literature. (Winter, odd years)

**MATH 495 - Directed Study | 1-3 hours**

Prerequisite(s): Approval by department faculty—See MATH 295 for course description.

## Modern Language

### **MDLG 165 - Topics in Modern Languages | 1-3 hours**

Selected topics in modern languages presented in a classroom setting. Subjects covered will determine how the course applies to the major. This course may be repeated for credit.

### **MDLG 230 - Critical Methods in Languages | 3 hours**

Prerequisite(s): ENGL 102—It continues the process of critical analysis through literary readings in translation. It presents students with some of the major trends in twentieth-century literary criticism, including a glimpse of the postcolonial condition and awareness of subaltern studies for development of critical thinking skills. Students will write brief critical responses to reading as a step for oral production and academic dialogue in class. This course is offered in English.

### **MDLG 265 - Spanish for Health Professionals (I-3c) | 3 hours**

This course is designed for physicians, nurses, and other health professionals who need to communicate with Spanish-speaking clients. In this course, students will develop health-related vocabulary in context; situational dialogues and responses; communication patterns; body language; and higher understanding of specific expressions and responses commonly used by health professionals when interacting with Spanish-speaking clients. This course will not count toward any of the majors offered by the Modern Languages Department. Open to all but primarily for Allied Health, Nursing, Pre-Med, Wellness, and Social Work majors. (Winter)

### **MDLG 266 - Topics in Modern Languages | 1-3 hours**

See MDLG 165 for course description.

### **MDLG 350 - Global Citizenship Seminar I | 1 hour**

To provide students the opportunity to acquire global competence and to continue with language acquisition. This seminar is an academic follow-up primarily for ACA students returning from abroad as they readjust to the United States. Lab fee 3 will be assessed for this course.

### **MDLG 450 - Global Citizenship Seminar II | 1 hour**

Prerequisite(s): MDLG 350—This seminar will focus on preparing global citizens. It serves students as a deepening of their reflection and a contextualization of their experience abroad. Lab fee 3 will be assessed for this course.

### **MDLG 490 - MLD Exit Examination (DEE) | 1 hour**

Corequisite(s): MDLG 450—The objective of this course is to assist students in preparing for the Departmental Exit Exam (DEE) as partial fulfillment of the International Studies degree. Students will have the opportunity to maintain and enhance a modern language within the chosen major. Lab fee 3 will be assessed for this course.

## Management

### **MGNT 265 - Topics in Business | 1-3 hours**

Prerequisite(s): Permission of the instructor—Selected topics designed to meet the needs or interests of students in specialty areas of business and management. This course may be repeated for credit with permission.

### **MGNT 295 - Directed Study | 1-3 hours**

Prerequisite(s): Approval of the Dean of the School—A directed study involves individualized research into a selected topic chosen by the faculty adviser and the student.

### **MGNT 334 - Principles of Management | 3 hours**

A study of basic business management including an analysis of business policies viewed from the standpoint of the functional characteristics of the management process and current ethics.

### **MGNT 344 - Human Resource Management | 3 hours**

An introduction to the organization, training, motivation, and direction of employees with a view to maintaining their productivity and morale at high levels. Among topics covered are selection, training, compensation and financial incentives, work standards, techniques of supervision and leadership, and regulatory compliance. (Winter)

### **MGNT 350 - Managing Business Networks and Operations | 3 hours**

Prerequisite(s): BUAD 217; BUAD 221 or MATH 215—Covers the conceptual models, decision making tools, and information systems used by managers and strategists to integrate operations, supply chain, and information systems toward increased productivity and competitive advantage.



**MGNT 354 - Principles of Risk Management | 3 hours**

An introductory study in the field of risk management. Material covered includes insurance categories of liability, property, health and life. The primary emphasis will be on business applications, but some consideration will be given to the personal risk. (Winter, odd years)

**MGNT 364 - International Business and Economics | 3 hours**

Prerequisite(s): ECON 224, ECON 225—A survey of the world environment of business including aspects of economics, cultures, trade theories, governments, exchange and finances, multinational firms' strategies. The impact on business operations of each of these is considered, including a study of the economic relationships between countries and the cooperation that is necessary for stable economic world growth. (Fall)

**MGNT 368 - Multicultural Management | 3 hours**

Prerequisite(s): MGNT 334 or permission of instructor—Develops an understanding of the role and impact of cultural diversity in the workplace. The course focuses on how multiculturalism influences the local and international environments within which organizations operate, including economic, legal, and political aspects; markets and business customs; dealing with foreign governments and nationals; formulating, implementing, and evaluating cross-functional and cross-cultural decision processes that enable an organization to achieve its objectives. (Winter)

**MGNT 371 - Principles of Entrepreneurship | 3 hours**

A study of the theory and practice of initiating a business venture and organizing the necessary resources. Provides an understanding of the risks and rewards associated with entrepreneurship. Topics include start-up financing, marketing, risk management, development and implementation of a business plan. (Fall)

**MGNT 372 - Small Business Management | 3 hours**

Prerequisite(s): ACCT 103 or ACCT 222—Examines the principles and problems of operating a small business after it is established. Topics covered include a procedural system for operating a small business, providing physical facilities, financing, organizing, marketing, and managing of the small business. (Winter)

**MGNT 410 - Organizational Theory and Design | 3 hours**

A management capstone course for the development of thinking about organizations. Missions, goals, strategies, and effectiveness are blended into learning about organizational design as it is influenced by external realities. Students learn design alternatives to create a fit between the strengths of the organization and its external environment to achieve a sustainable competitive advantage. (Winter)

**MGNT 420 - Organizational Behavior | 3 hours**

Investigates the impact that individuals and groups have on values, attitudes, job satisfaction, motivation, and how the resultant organizational structure and culture are affected. The purpose of the course is the application of this knowledge toward improving an organization's effectiveness. Students learn the dynamics of leadership and management as they influence organizational behavior. (Fall)

**MGNT 450 - Leadership in Organizations | 3 hours**

This course is cross-listed with NPLD 550. A student may receive credit for this course from only one program—This course is a non-quantitative exploration of leadership allowing students to engage in an in-depth study of how they can develop as successful organizational leaders. The strengths and weaknesses of various leadership approaches (including Great Man, behavioral, contingency, transformational, servant leadership and shared leadership) are compared. Other course topics may include the Biblical teaching on leadership, conflict management and/or approaches to leading organizational change. Students are required to obtain hands-on leadership experience during the semester outside of class as part of the course requirements. (Winter)

**MGNT 452 - Christian Missionary Entrepreneurship | 3 hours**

This course is cross-listed with NPLD 552. A student may receive credit for this course from only one program—This course familiarizes students with the complex range of decisions and activities that arise in the initiation and operation of a nonprofit organization. This is accomplished by an immersive academic experience that involves students directly in service for others within the context of the Seventh-day Adventist faith. In addition to real-world challenges, participants study text, online, and periodical material to provide an intelligent consideration of corporate forms, sources of revenue, constituencies, operational considerations, and nonprofit products and services. This class presumes familiarity with, and appreciation of, the writings of Ellen White. Prospective students who are not familiar with the writings of Ellen White may contact the professor for provisional acceptance into the class.

**MGNT 460 - Compensation and Benefits | 3 hours**

Prerequisite(s): MGNT 344—Part one of the course covers employee and executive compensation components, theory, and strategies. Compensation is an integral part of attracting and retaining orga-

nizational talent. Part two of the course covers executive and employee benefits and strategies. In the climate of expensive medical coverage, emphasis will be given to cost containment strategies. Great organizations offer benefits that satisfy a wide range of employees' needs and delivers competitive advantage in attracting and retaining a quality employee base. (Winter online even years)

**MGNT 464 - Business Strategies (W) | 3 hours**

Prerequisite(s): BMKT 326; ECON 225; FNCE 315; MGNT 334; Achieve senior status (complete 94 hours before enrolling in this course.)—A capstone course that integrates the functional business areas. It is designed to give the student experience in strategic analysis and decision-making using the case method. Students learn to identify, analyze, propose alternative solutions, and make decisions about business strategy. Attention is given to matching organizational resources to the external environment to achieve a strategic competitive advantage. Lab fee 2 is assessed for this course.

**MGNT 465 - Topics in Business | 1-3 hours**

Prerequisite(s): Permission of the instructor—See MGNT 265 for course description.

**MGNT 470 - Strategic Management in Nonprofit Organizations (W) | 3 hours**

The integration and application of strategic management principles, concepts, and practices in nonprofit organizations are discussed. The development of mission statements, goal-setting concepts, and strategy formulation and implementation approaches are included. Students are provided the opportunity to design organizational plans and strategies relevant to their specific needs and the needs of their organizations.

**MGNT 491 - Management Practicum | 1-3 hours**

Prerequisite(s): Junior or senior status and permission of a supervising professor. (Registration for this course and an agreement with a supervising professor must be completed prior to beginning the work experience)—A practicum consists of supervised volunteer/work experience in related fields of management on a part-time basis. The work may be done at various job sites. A minimum of 50 clock hours of work experience is required for each semester hour of credit. (Note: A maximum of 3 credit hours of practicum and/or internship may apply as an elective in the major.)

**MGNT 492 - Management Internship | 1-3 hours**

Prerequisite(s): Junior or senior status and permission of a supervising professor. (Registration for this course and an agreement with a supervising professor must be completed prior to beginning the work experience)—Students obtain on-the-job experience working under supervision in a management position or a tailored program of management experience in a selected office or facility on a full-time basis. All hours must be completed on one job site. A minimum of 100 clock hours of work experience is required for each semester hour of credit. (Note: A maximum of 3 credit hours of practicum and/or internship may apply as an elective in the major.)

**MGNT 495 - Directed Study | 1-3 hours**

Prerequisite(s): Approval of the Dean of the School—See MGNT 295 for course description.

**MGNT 497 - Management Research | 3 hours**

Prerequisite(s): BUAD 221 or MATH 215; MGNT 450—This course permits students to apply principles of research and statistical analysis of data leading to the completion of a research project.

## Church Music

**MUCH 216 - Music in the Christian Church (S-3b) | 3 hours**

A historical, theological, and liturgical survey of music in the Christian Church, from its roots in the Jewish synagogue to contemporary trends in worship, with particular emphasis on hymnology.

**MUCH 315 - Church Music Materials and Administration | 3 hours**

The study of worship philosophies, denominational political hierarchies, liturgies, ensemble organization, appropriate music literature for performance and administrative procedures. Students are required to prepare service music for services of various denominations.

## Music Theory

**MUCT 107 - Basic Musicianship I | 1 hour**

This course, designed to be taken concurrently with MUCT 111, is for prospective music majors and minors whose placement scores indicate a need of fundamental musical knowledge. Students will receive instruction in the elements of music, i.e. pitch and rhythmic notation, key and time signatures, major and minor scales, intervals and chords. Two class periods per week are required. (Fall)

**MUCT 108 - Basic Musicianship II | 1 hour**

This course is to be taken concurrently with MUCT 112 and, like MUCT 107, is designed to assist students in the acquisition of fundamental musical knowledge. Students will continue the study of triads, seventh chords, and their application within the tonal system, and learn the basic principles of four-part voice leading and part writing. Two class periods per week are required. (Winter)

**MUCT 111 - Music Theory I | 3 hours**

Prerequisite(s): Satisfactory score on placement examination—A study of the elements that render music of all periods aurally and visually comprehensible, within simple forms and a variety of textures from one to four voices. Music Theory I may not be repeated more than once. (Fall)

**MUCT 112 - Music Theory II | 3 hours**

Prerequisite(s): MUCT 111 with a grade of C- or higher—A study of the elements that render music of all periods aurally and visually comprehensible, within simple forms and a variety of textures from one to four voices. Music Theory I may not be repeated more than once. (Winter)

**MUCT 121 - Aural Theory I | 1 hour**

A laboratory for the development of keyboard and sight-singing skills related to the materials introduced in MUCT 111 - MUCT 112. This is a computer assisted course. (Fall)

**MUCT 122 - Aural Theory II | 1 hour**

A laboratory for the development of keyboard and sight-singing skills related to the materials introduced in MUCT 111 - MUCT 112. This is a computer assisted course. (Winter)

**MUCT 211 - Music Theory III | 3 hours**

Prerequisite(s): MUCT 111 - MUCT 112—An expanded and intensified study of the structure of music as begun in MUCT 111 - MUCT 112. In MUCT 212, contemporary music is emphasized. (Fall)

**MUCT 212 - Music Theory IV | 3 hours**

Prerequisite(s): MUCT 111 - MUCT 112—An expanded and intensified study of the structure of music as begun in MUCT 111 - MUCT 112. In MUCT 212, contemporary music is emphasized. (Winter)

**MUCT 221 - Aural Theory III | 1 hour**

Keyboard and sight-singing applications of materials studied in MUCT 211 - MUCT 212. This is a computer-assisted course. (Fall)

**MUCT 222 - Aural Theory IV | 1 hour**

Keyboard and sight-singing applications of materials studied in MUCT 211 - MUCT 212. This is a computer-assisted course. (Winter)

**MUCT 295 - Directed Study | 1-3 hours**

Individual study open to music majors and other qualified students. Content to be arranged. Approval must be secured from the School Dean prior to registration. May be repeated up to a total of three hours. (Fall, Winter, Summer)

**MUCT 313 - Orchestration and Arranging | 3 hours**

Prerequisite(s): MUCT 212 or permission of the instructor—The ranges, capabilities and limitations, and transpositions of orchestra and band instruments. Idiomatic scoring of short works for vocal and instrumental chamber groups, small orchestra, and band. Performance of exercises and analysis of scores is emphasized. (Fall, even years)

**MUCT 314 - Counterpoint | 3 hours**

Prerequisite(s): MUCT 212 or permission of the instructor—A study of the concept and principles of counterpoint. Course components include: a species approach to counterpoint as evidenced in 16th-century vocal music; a harmony-based approach to the instrumental contrapuntal writing of the mature Baroque; and a representative sampling of counterpoint as seen in repertoire from the 19th and 20th centuries. Students directly interface with course material through analysis, composition, and performance. (Winter, odd years)

**MUCT 315 - Compositional Techniques | 3 hours**

Prerequisite(s): MUCT 212 or permission of the instructor—An introduction to the process and experience of musical composition. Students will explore perceptions of repetition, variation, and contrast as elements in artistic construction. They will experiment with rhythmic, melodic, and harmonic aspects of musical gesture and their effects, particularly in small musical forms. (Fall, odd years)

**MUCT 413 - Analysis of Musical Forms | 3 hours**

Prerequisite(s): MUCT 212 or permission of the instructor—An analytical study of musical structure from the smallest units of form to the more complex music of all historical periods. (Winter, even years)

**MUCT 465 - Topics in Music | 1-3 hours**

Selected topics in music presented in a classroom setting. Subjects covered will determine how the class applies to the major. This course may be repeated for credit.

**MUCT 495 - Directed Study | 1-3 hours**

See MUCT 295 for course description.

**Music Education****MUED 231 - Music and Movement: A Sequential Approach | 2 hours**

Prerequisite(s): EDUC 129, EDUC 138, or approval of instructor—A survey of the structure of music including music fundamentals, movement to music, performance skills, listening skills, and the integration of music into life activities. This course does not apply toward a major or minor in music.

**MUED 236 - String Methods and Techniques | 2 hours**

The study of the stringed instruments, including methods and materials for class and private instruction. Observation of classroom and private instruction is required. (Winter, even years)

**MUED 246 - Brass Methods and Techniques | 2 hours**

A study of tone production, performance techniques, embouchure, fingerings, practical pedagogic techniques, and simple repairs. A survey of literature for the instruments and evaluation of teaching methods. Observation of classroom and private instruction is required. (Fall, even years)

**MUED 250 - Technology in Music Education (I-2c) | 2 hours**

Prerequisite(s): CPT 100 or equivalent—A course designed to help music students develop skills in the use of computers in music education. Students will become proficient in the use of MIDI, and of music notation and sequencing programs. They will sample and learn to use computer programs in the music department and teaching administration and in the teaching of music theory, appreciation, performance, literature, history, and ear training in grades K-12.

**MUED 256 - Woodwind Methods and Techniques | 2 hours**

A study of tone production, performance techniques, embouchure, fingerings, practical pedagogic techniques, and simple repairs. A survey of literature for the instruments and evaluation of teaching methods. Observation of classroom and private instruction is required. (Winter, odd years)

**MUED 266 - Percussion Methods and Techniques | 2 hours**

The study of the percussion instruments, including methods and materials for class and private instruction. Observation of classroom and private instruction is required. (Fall, odd numbered years)

**MUED 316 - Piano Pedagogy | 2 hours**

Prerequisite(s): Two hours of MUPF 189 or equivalent—Methods, materials, and procedures for private and class piano instruction; planning a complete program for pupils on various grade levels including technic, repertoire, and musicianship. Observation and teaching are required. (Fall, odd years)

**MUED 317 - Voice Pedagogy | 2 hours**

Prerequisite(s): Two hours of MUPF 189 or equivalent and permission of instructor—Methods, materials, and procedures for private and class voice instruction; testing and classification of voices; physiological and psychological problems of voice production and diction. Observation and teaching are required. (Winter, odd numbered years)

**MUED 318 - Organ Pedagogy | 2 hours**

Prerequisite(s): Two hours of MUPF 189 or equivalent—Methods, materials, and procedures for instruction in organ; accompaniment of church services; registration of organ literature on various types of organs. Observation and teaching are required. (Fall, even years)

**MUED 331 - Music in the Elementary School | 3 hours**

Prerequisite(s): Admission to Teacher Education—A study of music teaching-learning methods, materials and strategies for K-8 students. Basic concepts of musical organization, musical skills, and literature for the classroom. The course will include a survey of age-appropriate choral and instrumental repertoires. Observation of classroom teaching is required. (Fall, odd years)

**MUED 332 - Music in the Secondary School | 3 hours**

A study of music teaching-learning methods, materials and strategies for 9-12 students. Theories and practices in secondary school music, attention to music administration, discipline, curricular developments in music education, evaluation procedures appropriate to the music classroom. The course will include a survey of age-appropriate choral and instrumental repertoires. Observation of classroom teaching is required. (Winter, even years)

**MUED 439 - Pre-Student Teaching Seminar | 1 hour**

Prerequisite(s): Admission to Teacher Education—A seminar in which the student is oriented to student teaching, including curriculum, lesson planning, professional relationships, and other matters related to student teaching.

**Music History****MUHL 115 - Music in Western Culture (S-3b) | 3 hours**

A course designed to acquaint students with the history of western music from the Middle Ages through the 20th century. Topics will include major composers, styles, forms and genres studied within their cultural contexts. This course does not apply toward a major in music.

**MUHL 120 - Music in the United States (S-3b) | 3 hours**

A study of the significant musical trends that have evolved during the four centuries of the nation's history. This course also examines the socio-historical contexts that have fostered differing musical traditions. Topics include folk and traditional music, art music, sacred music, popular music, and music for theatre and film.

**MUHL 218 - Musical Styles and Repertories (S-3b) | 3 hours**

A global introduction to musical style and literature, designed primarily for music majors and minors, but open to all interested students. Emphasis is upon aural recognition as folk, popular, and classical traditions are studied within their historical and cultural contexts. (Fall)

**MUHL 295 - Directed Study | 1-3 hours**

Individual study open to music majors and other qualified students. Content to be arranged. Approval must be secured from the School Dean prior to registration. May be repeated up to a total of three hours.

**MUHL 320 - Music of the Middle Ages and Renaissance (W) | 2 hours**

A survey of the important figures, trends, styles, and genres in Western Europe, beginning with musical thought and practice in ancient Greece and culminating in the High Renaissance of the 16th century. Ability to read music is strongly recommended. (Fall, odd years)

**MUHL 321 - Music of the Late Renaissance and Baroque Era (W) | 2 hours**

Beginning with the Reformation and Counter-Reformation, the course traces the history of western music to the mid-18th century with the principal composers, styles, and genres of the Baroque period. Ability to read music is strongly recommended. (Winter, even years)

**MUHL 322 - Classic and Romantic Music (W) | 2 hours**

A study of the major composers, genres, and stylistic trends in Europe and the United States from the mid-18th century through the 19th century. Ability to read music is strongly recommended. (Fall, even years)

**MUHL 323 - Music in the Twentieth Century (W) | 2 hours**

The diversity of musical styles in the modern and post-modern eras taught from a global perspective, emphasizing the expanded musical vocabulary of western art music through its incorporation of popular and folk elements, and non-Western theories and techniques. Ability to read music is strongly recommended. (Winter, odd years)

**MUHL 465 - Topics in Music | 1-3 hours**

Selected topics in music presented in a classroom setting. Subjects covered will determine how the class applies to the major. This course may be repeated for credit.

**MUHL 485 - Music Seminar | 2 hours**

Prerequisite(s): Permission of Instructor—A seminar focusing on a particular composer, style, genre, or issue within the history of music. This course may be repeated for credit.

**MUHL 495 - Directed Study | 1-3 hours**

Individual study open to music majors and other qualified students. Content to be arranged. Approval must be secured from the School Dean prior to registration. May be repeated up to a total of three hours.

**Music Performance****MUPF 103 - Class Piano 1 | 1 hour**

For music majors, a two-semester course sequence designed to develop basic piano skills, which include the playing of scales, chords, arpeggios, cadences, and simple melodies and hymns.

**MUPF 104 - Class Piano 2 | 1 hour**

For music majors, a two-semester course sequence designed to develop basic piano skills, which include the playing of scales, chords, arpeggios, cadences, and simple melodies and hymns.

**MUPF 108 - Group Instruction (S-3c) | 1-2 hours**

For the general student, class instruction in beginning-intermediate voice, beginning piano, or beginning classical guitar. The instruction emphasizes acquisition of basic techniques and solo performance. A minimum of four hours of practice and/or listening outside of class is required. May be repeated for credit.

**MUPF 118 - I Cantori (S-3c) | 1 hour**

A carefully balanced SATB chamber choir comprised of students with advanced vocal potential and experience. In addition to their distinctive chamber choir experience, members of I Cantori form the leadership core for Bel Canto and Die Meistersinger. Performance opportunities include a variety of on-campus presentations and off-campus tours. Must be members of Bel Canto or Die Meistersinger. Membership commitment is expected for the entire academic year.

**MUPF 119 - Bel Canto (S-3c) | 1 hour**

A choral ensemble for women with beginning through advanced levels of experience. BelCanto functions independently and also with Die Meistersinger as a combined SATB ensemble. Performance opportunities include a variety of on-campus presentations.

**MUPF 128 - Wind Symphony (S-3c) | 1 hour**

A large touring ensemble of woodwind, brass, and percussion players performing a wide variety of Grade 4-6 (Advanced) wind literature, both sacred and secular. Membership commitment is expected for the entire academic year.

**MUPF 129 - Applied Music (S-3c) | 1-2 hours**

Private instruction in voice, piano, organ, or orchestral instrument. One-half hour lesson and a minimum five hours practice per week are required for each hour of credit granted. May be repeated for credit. (Fall, Winter, Summer)

**MUPF 138 - Symphony Orchestra (S-3c) | 1 hour**

A large touring ensemble that performs standard orchestral works from the Classical, Romantic, and Modern periods. Membership commitment is expected for the entire academic year.

**MUPF 158 - Die Meistersinger Male Chorus (S-3c) | 1 hour**

A choral ensemble for men with beginning through advanced levels of experience. Die Meistersinger functions independently and also with Bel Canto as a combined SATB ensemble. Performance opportunities include a variety of on-campus presentations.

**MUPF 178 - Instrumental Ensemble Experience | 1 hour**

A course designed to provide credit for chamber ensembles or, in the case of keyboard majors, significant accompanying experience. This course does not fulfill the music ensemble requirement for music majors.

**MUPF 188 - Vocal Ensemble Experience | 1 hour**

A course designed to provide credit for participants in major choral works, musical productions, and other school-sponsored vocal activities. This course does not fulfill the music ensemble requirement for music majors.

**MUPF 189 - Concentration | 1-2 hours**

Prerequisite(s): Performance examination for freshman standing. For music majors and minors—Private instruction in voice, piano, organ, or orchestral instrument. One-half hour lesson and a minimum five hours practice per week are required for each hour of credit granted. Private lessons for voice majors and minors include attendance at a weekly voice performance class. All students must perform on at least one Music General Recital and complete a Jury Examination at the end of the semester. May be repeated for credit.

**MUPF 225 - Singers Diction I | 2 hours**

An introduction to the study of Italian, German, French, and English pronunciation, using the International Phonetic Alphabet. (Fall, odd years)

**MUPF 226 - Singers Diction II | 2 hours**

Prerequisite(s): MUPF 225 or permission of instructor—The advanced study of Italian, German, French, and English pronunciation, using the International Phonetic Alphabet. (Winter, even years)

**MUPF 273 - Basic Conducting | 1 hour**

Prerequisite(s): MUCT 111—The development of basic conducting skills, focusing on beat patterns, expressive gestures, score preparation and rehearsal techniques.

**MUPF 279 - Service Playing | 1 hour**

Prerequisite(s): Two hours MUPF 189 (organ) or permission of instructor—The development of skills requisite to playing both liturgical and non-liturgical services, including hymn playing, choral and solo accompanying, conducting from the console, improvisation and modulation, and selection of appropriate preludes, offertories, and postludes. Performance experience required. May be repeated for credit.

**MUPF 289 - Accompanying | 1 hour**

Prerequisite(s): Two hours MUPF 189 (piano) or permission of instructor—The development of skills requisite to accompanying solo, choral, congregational, and worship service performance. Performance experience required. May be repeated for credit.

**MUPF 295 - Directed Study | 1-3 hours**

Individual study open to music majors and other qualified students. Content to be arranged. Approval must be secured from the School Dean prior to registration. May be repeated up to a total of three hours.

**MUPF 318 - I Cantori (S-3c) | 1 hour**

See MUPF 118 for course description.

**MUPF 319 - Bel Canto (S-3c) | 1 hour**

See MUPF 119 for course description.

**MUPF 328 - Wind Symphony (S-3c) | 1 hour**

See MUPF 128 for course description.

**MUPF 329 - Applied Music (S-3c) | 1-2 hours**

Prerequisite(s): Two hours of MUPF 129 or permission of instructor—Private instruction in voice, piano, organ, or orchestral instrument. One-half hour lesson and a minimum five hours practice per week are required for each hour of credit granted. May be repeated for credit.

**MUPF 334 - Chamber Music | 1 hour**

Study and performance of chamber literature for various combinations of strings, brass, woodwinds, and percussion from the earliest examples to works of the 20th century. May be repeated for credit.

**MUPF 338 - Symphony Orchestra (S-3c) | 1 hour**

See MUPF 138 for course description.

**MUPF 344 - Instrumental Literature | 2 hours**

Study and performance of solo literature for strings, brass, woodwinds, or percussion from the earliest examples to works of the 20th century.

**MUPF 358 - Die Meistersinger Male Chorus (S-3c) | 1 hour**

See MUPF 158 for course description.

**MUPF 373 - Choral Conducting | 2 hours**

Prerequisite(s): MUPF 273—The art of communicating with and through a choral ensemble based on the development of clear and expressive conducting gestures. Study of the unique processes of individual and ensemble vocal development: breath management, phonation, resonance, and articulation. Score analysis, repertoire selection, performance practice, program building, and administration. (Fall, even years)

**MUPF 374 - Instrumental Conducting | 2 hours**

Prerequisite(s): MUPF 273—The study of band and orchestral scores, covering elements of style, form, and interpretation. Emphasis on instrumental problems and transpositions. Development of baton technique through conducting instrumental ensembles. (Winter, odd years)

**MUPF 378 - Instrumental Ensemble Experience | 1 hour**

See MUPF 178 for course description.

**MUPF 388 - Vocal Ensemble Experience | 1 hour**

See MUPF 188 for course description.

**MUPF 389 - Concentration | 1-2 hours**

Prerequisite(s): Junior Standing as Music Major or approval of music faculty—For music majors and minors. Private instruction in voice, piano, organ, or orchestral instrument. One-half hour lesson and

a minimum five hours practice per week are required for each hour of credit granted. Private lessons for voice majors and minors include attendance at a weekly voice performance class. All students must perform on at least one Music General Recital and complete a Jury Examination at the end of the semester. May be repeated for credit.

**MUPF 489 - Senior Recital | 2 hours**

Prerequisite(s): Permission of music faculty—This capstone course represents the preparation and performance of a senior recital in the music major's area of concentration, and is required of all students in the general, performance, and music education tracks. Course requirements include 12 one-hour lessons with a recital document and/or program notes as appropriate to the content of the recital. A faculty audition of the recital is required at least three weeks in advance of the recital date. All requirements for this course must be met within the semester for which the student is registered.

**MUPF 495 - Directed Study | 1-3 hours**

Individual study open to music majors and other qualified students. Content to be arranged. Approval must be secured from the School Dean prior to registration. May be repeated up to a total of three hours.

**Nondepartmental**

**NOND 080 - Academic Power Tools | 0 hours [Non-Credit]**

This course is designed to assist students make a successful transition to university life. Course materials will focus on academic skills, time management, career choice, relationships with peers and professors, and sources of assistance to resolve problems. Academic Power Tools fee will be assessed for this course.

**NOND 099 - Student Missions Orientation | 0 hours [Non-Credit]**

This class is administered by the University Chaplain. A course designed to help students better understand cultural differences, interpersonal relationships, health care for others and themselves, social and monetary problems, personal qualifications for service, and relevant denominational policies for overseas service. The class is required by the General Conference of Seventh-day Adventist for those under appointment as student missionaries. The class is also a prerequisite for students participating in the North American Division Task Force Program. (Winter)

**NOND 101 - Southern Connections (S-1) | 1 hour**

This seminar is designed to equip first-year students for success in the university environment. Emphasis will be placed on the development of critical and creative thinking skills within a student's area of interest.

**NOND 226 - Christian Service | 0-3 hours**

This class is for elective credit only and is designed for student participants in the international evangelistic campaigns organized by the Pierson Institute of Evangelism and World Missions each summer. The credit is earned primarily by participating in the "boot camp" training session prior to traveling abroad and then preaching a series of evangelistic sermons in an international location. However, reading and other activities may be assigned as well. May not be repeated for credit. (Summer) (Pass/Fail)

**NOND 227 - Christian Service I (SERV-2) | 6 hours**

This class is administered by the University Chaplain—Prerequisite(s): NOND 099—A two-semester sequence for elective credit only, designed for student participants in the North American Division Task Force and Student Mission Program. The credit is primarily field work characterized by Christian witnessing and other assignments. Other activities may be designated. Students may earn six credit hours by completing one semester or twelve credit hours by completing a full academic year. Periodic reports from the students and on-site supervisors may be required. The policy for tuition refunds applies. Refer to the finance section of the Catalog. The date the college receives notification of withdrawal will be the official withdrawal date. May not be repeated for credit.

**NOND 228 - Christian Service II (SERV-2) | 6 hours**

This class is administered by the University Chaplain—Prerequisite(s): NOND 099—A two-semester sequence for elective credit only, designed for student participants in the North American Division Task Force and Student Mission Program. The credit is primarily field work characterized by Christian witnessing and other assignments. Other activities may be designated. Students may earn six credit hours by completing one semester or twelve credit hours by completing a full academic year. Periodic reports from the students and on-site supervisors may be required. The policy for tuition refunds applies. Refer to the finance section of the Catalog. The date the college receives notification of withdrawal will be the official withdrawal date. May not be repeated for credit.



## Nutrition

### NRNT 125 - Nutrition (P-2) | 3 hours

Prerequisite(s): PEAC 125—A study of basic nutrition principles and how to reliably combat disease and achieve optimal health through nutrition and lifestyle choices. This course includes current issues in nutrition and a practical application in teaching others.

## Nursing

### NRSRG 090 - Registered Nurse Update | Non-credit

A non-credit course designed for the inactive nurse with a license who is intending to return to practice or to reinstate a permanent license as an RN or LPN nurse in the State of Tennessee. Includes both theory and clinical experience. RN Update fee will be assessed for this course.

### NRSRG 103 - Associate Nurse Perspectives | 1 hour

Prerequisite(s): Successful completion of the following: an approved Licensed Practical Nurse (LPN) program and examination over basic skills common to all areas of nursing—A course designed to supplement and prepare the LPN for advanced placement and career mobility.

### NRSRG 110 - Fundamentals of Nursing | 8 hours

Prerequisite(s): Admission to the School of Nursing; BIOL 101-BIOL 102; CHEM 111—Corequisite(s): NRNT 125—A foundational nursing course that builds on the concepts of the Neuman Systems Model in which health assessment is viewed from the physiological, psychological, sociocultural, developmental, and spiritual variables of client systems. The eight natural remedies will be applied with an emphasis on primary and secondary prevention interventions. The nursing process, as well as nursing skills and assessment, will be applied in the skills and simulation labs and acute care facilities. Six hours of theory, two hours clinical. Lab fee 15 will be assessed for this course.

### NRSRG 126 - Adult Health I | 4 hours

Prerequisite(s): NRSRG 110—Corequisite(s): PSYC 128—A course emphasizing basic theory and practice of nursing in dealing with adults who are experiencing selected non-critical, medical-surgical stressors. The nursing process is utilized to promote physical, psychological, sociological, developmental and spiritual health, intervene in illness, and assist in rehabilitation. Practice takes place in secondary-care settings. Three hours theory and one hour clinical. Lab fee 11 will be assessed for this course.

### NRSRG 130 - Mental Health | 4 hours

Prerequisite(s): NRSRG 110—Corequisite(s): PSYC 128—A course that provides theory and practice in nursing of clients across the lifespan with mental health stressors. The nursing process is utilized to promote physical, psychological, sociological, developmental, and spiritual health, intervene in illness, and assist in rehabilitation. Practice takes place in secondary care and community psychiatric settings. Three hours of theory and one hour clinical. Lab fee 11 will be assessed for this course.

### NRSRG 191 - Nursing Practicum | 1 hour

Prerequisite(s): NRSRG 126, NRSRG 130—A clinical course that provides opportunity for application of theory and skills in an acute and/or skilled care facility directed by a preceptor and faculty liaison. Lab fee 7 will be assessed for this course. (120 clock hours) (Summer) (Pass/Fail)

### NRSRG 212 - Childbearing Family | 4 hours

Prerequisite(s): NRSRG 126, NRSRG 130—A course utilizing the nursing process in providing care for childbearing families. Emphasis will be placed on assessment of stressors that affect the maternal/fetal, newborn, and family units. Consideration will be given to variables affecting expectant families and their infants before, during and immediately following delivery. Practice will take place in secondary-care and community settings. Three hours theory and one hour clinical. Lab fee 11 will be assessed for this course.

### NRSRG 226 - Adult Health II | 4 hours

Prerequisite(s): NRSRG 126, NRSRG 130—A course designed sequentially to provide basic theory and practice of nursing in dealing with adults who are experiencing selected non-critical, medical-surgical stressors. The nursing process is utilized to promote physical, psychological, sociological, developmental and spiritual health, intervene in illness, and assist in rehabilitation. Practice takes place in secondary-care and community settings. Two and three-quarter hours theory and one and one-quarter hours clinical. Lab fee 11 will be assessed for this course.

### NRSRG 231 - Child Health (SERV-2) | 4 hours

Prerequisite(s): NRSRG 191, NRSRG 212, NRSRG 226—A course utilizing the nursing process emphasizing primary and secondary prevention with special consideration given to developmental and sociocultural variables in the care of the child rearing family. Practice and service opportunities will be available in secondary-care and community settings (including service in NRSRG 110, NRSRG 126, NRSRG 130) where

the student has the opportunity to develop awareness of client needs, collaborate with other healthcare providers, and to provide education to clients. A reflection paper will be required for each service learning experience. Three and one-quarter hours theory and three-quarter hour of clinical. Lab fee 11 will be assessed for this course.

**NRSRG 240 - Introduction to Healthcare Informatics (I-2c) | 1 hour**

Prerequisite(s): CPTe 100; NRSRG 110—This course introduces students to the use of computers in the field of nursing and nursing research. Presents specific nursing situations where the use of computer skills is essential for successful outcomes. Students will discover how the computer can assist the nursing student to provide the best patient care possible in a variety of settings. This course builds on computer skills already acquired in Computer Concepts as well as building on basic nursing skills.

**NRSRG 265 - Topics in Nursing | 1-3 hours**

Selected topics designed to meet the needs or interests of students in specialty areas of Nursing not covered in regular courses. This course may be repeated for credit.

**NRSRG 295 - Directed Study | 1-3 hours**

Prerequisite(s): Approval of the school dean—Individual study in an area of choice shall be worked out with the school prior to registration. Either upper or lower division credit may be earned. The area of directed study will appear on the transcript. No more than six hours directed study may be applied toward a degree.

**NRSRG 305 - Adult Health III | 4 hours**

Prerequisite(s): NRSRG 191, NRSRG 212, NRSRG 226—A course utilizing the nursing process in providing primary, secondary, and tertiary preventions and interventions for acutely ill adults and their families in the critical-care settings. Three and one-quarter hours theory and three-quarter hour of clinical. Lab fee 11 will be assessed for this course.

**NRSRG 308 - Mission Trip (SERV-2) | 0-1 hour**

This course is cross-listed with RPLP 308 and SOCW 308. A student may receive credit for this course from only one program—This elective class gives the opportunity for mission experience in a developing country or home mission area for the purpose of meeting physical, emotional, and spiritual needs. Opportunities are available to work collaboratively with students of other disciplines in intraprofessional outreach utilizing the knowledge and skills of each respective major. A reflection paper identifying both group and discipline-specific opportunities and contributions made on the mission trip will be turned in at the conclusion of the trip and will be assessed by the professor. Lab fee 26 will be assessed for this course. This course may be repeated for credit.

**NRSRG 309 - Nursing Seminar | 4 hours**

Corequisite(s): NRSRG 231, NRSRG 305—A capstone course that integrates nursing skills with principles of management. Practice takes place in secondary and tertiary care settings where the student manages groups of clients (72 clock hours). Included is a nursing content review course in preparation for NCLEX-RN. Lab fee 15 will be assessed for this course.

**NRSRG 314 - Herbal Therapy | 1 hour**

Pre- or Co-requisites: NRSRG 212, NRSRG 226—This course is a survey of generally accepted herbal therapies, their efficacy and safety. The focus will be on their use in conjunction with over-the-counter and prescription medications. Lab fee 5 will be assessed for this course. (Fall)

**NRSRG 316 - Applied Statistics for Health Professions | 3 hours**

Prerequisite(s): Meet Southern's math requirements or permission of professor—A course focusing on applied statistics used in quantitative research studies in the health professions. Topics include the research process, ethics used for human participants, especially for vulnerable populations such as persons with chronic and terminal diseases, descriptive and inferential statistics, probabilities, confidence indexes, hypothesis testing, reliability, validity, and sampling. SPSS (statistical software) is used to analyze and display data. Basic computer competency is assumed. Lab fee 5 will be assessed for this course.

**NRSRG 318 - Massage and Hydrotherapy | 1 hour**

An introductory course that provides a practical and rational approach to noninvasive health care covering the topics of massage, hydrotherapy, and holistic care. This complementary approach to health care is designed for all majors. Limited enrollment. Lab fee 5 will be assessed for this course.

**NRSRG 322 - Transitions in Professional Nursing (W) | 3 hours**

Prerequisite(s): NRSRG 231—A course that assists the registered nurse student in transition from an associate degree or diploma level to the baccalaureate level of nursing. Nursing philosophies, theories, current concepts, issues relevant to professional nursing are emphasized. Nursing career options and

the importance of career planning are explored. Field trip may be required. Lab fee 5 will be assessed for this course.

**NRSB 328 - Health Assessment | 3 hours**

Prerequisite(s): NRSB 231, NRSB 305, NRSB 309—A course that provides opportunity for students to further develop and refine their nursing assessment skills related to health history, interview skills, and the basic head-to-toe physical exam, recognizing expected findings across the lifespan. Patient health is assessed within the framework of the environment, with attention to intra-, inter-, and extra-personal stressors and system stability. Health education and evidence-based practice are integrated with the assessment process. Two hours theory, one hour clinical. Lab fee 10 will be assessed for this course.

**NRSB 329 - Missions and Health (SERV-2) | 2 hours**

This course is cross-listed with SOCW 329 and RELP 329. A student may receive credit for this course from only one program—This elective class is intended to introduce the nursing student to principles and practices of health care in developing and third world countries. Throughout the course emphasis will be placed on the role of the missionary in spreading the Gospel while administering health care. Concepts of development, basic health education, and prevention of diseases throughout the life cycle is a primary focus of the course. Utilization of natural remedies and available resources and materials will be promoted.

**NRSB 330 - Informatics in Clinical Nursing Practice | 2 hours**

A course designed to introduce nursing students to healthcare technology and explore how technology has changed nursing. We will also examine the field of nursing informatics which combines computer science, information science and nursing science to assist in the management and processing of nursing data, information and knowledge in order to support the practice and delivery of nursing care. Experience will be gained in the use of electronic health records, word processors, presentation software, spreadsheets, e-mail, and access of information as well as ethical, legal, and security issues. Lab fee 5 will be assessed for this course.

**NRSB 340 - Community Health Nursing (SERV-2) | 5 hours**

Prerequisite(s): NRSB 231, NRSB 305, NRSB 309—A course that focuses on the impact of certain stressors on the health of individuals, families, and communities. The NSM as well as Pender's Health Promotion Model are utilized in diagnosis of aggregate health needs. Emphasis is placed on interventions in the primary, secondary, and tertiary levels of prevention. Three hours theory, two hours clinical. Lab fee 10 will be assessed for this course.

**NRSB 350 - Critical Care of the Newborn | 2-3 hours**

Prerequisite(s): NRSB 231, NRSB 305, NRSB 309—The critical care of the newborn course is an online course designed to provide nurses the knowledge base needed to assess, plan, and provide care for the newborn that requires critical care and its family. Content areas include stressors involving respiratory, cardiovascular sepsis, neurologic, hematology, renal, gastrointestinal, prematurity, and ethical issues. (Fall)

**NRSB 351 - Registered Nurse (RN) Licensure | 0 hours**

Current RN License in any state. Required for completion of BS Nursing Degree.

**NRSB 365 - Topics in Nursing | 1-3 hours**

See NRSB 265 for course description.

**NRSB 389 - Nursing Pharmacology | 3 hours**

Prerequisite(s): CHEM 111 or CHEM 151; NRSB 126, NRSB 130—Corequisite(s): CHEM 112 or CHEM 152—A course that focuses on concepts of pharmacokinetics, and pharmacodynamics, adverse responses, major classifications of pharmacologic agents and their prototypes, and use of the nursing process in pharmacologic therapy across the lifespan. Effect of pharmacologic therapy upon client lines of resistance and defense is included. Recently approved pharmacologic agents are incorporated into the course content via student presentations. Lab fee 5 will be assessed for this course.

**NRSB 405 - Sexual Abuse Awareness and Prevention | 1-3 hours**

This course is cross-listed with FMST 405, PSYC 405, and SOCW 405. A student may receive credit for this course from only one program—See FMST 405 for course description.

**NRSB 412 - Preparing to Meet the Firms | 1 hour**

This course is made up of a series of topics presented in a seminar setting to provide students with necessary tools to actively pursue and acquire internships and jobs. Topics will include but are not limited to: Résumés, Networking, Corporate Climate, Interviewing, Dress, Portfolios, Company Research, Etiquette. Besides listening to guest presentations, opportunities will exist to interact with guest lecturers and professors about thoughts and theories regarding the area of job acquisition. (Winter)

**NRSG 418 - Concepts in Adult Critical Care | 2 hours**

Prerequisite(s): NRSG 231, NRSG 305, NRSG 309—This course involves exploration of concepts elementary to critical care of the adult and nursing in the critical care area. The critical care patient is examined from a holistic perspective in which the physiologic, psychological, sociocultural, developmental, and spiritual needs of the client are considered—1.5 hours theory and .5 hour clinical. Lab fee 5 will be assessed for this course. (Winter)

**NRSG 434 - Pathophysiology | 3 hours**

Prerequisite(s): NRSG 126, NRSG 130—A course that examines alterations in the basic pathologic structure and defense of humans. Stressors and other internal and external factors that have potential for disrupting homeostasis are examined. Understanding of pathophysiologic processes affecting the health of individuals is presented as a foundation for nursing interventions. Lab fee 7 will be assessed for this course.

**NRSG 465 - Topics in Nursing | 1-3 hours**

See NRSG 265 for course description.

**NRSG 467 - Health Evangelism (R-4) (SERV-2) | 2-3 hours**

This course is cross-listed with RELP 467. A student may receive credit for this course from only one program—See RELP 467 for course description.

**NRSG 485 - Nursing Leadership and Management (I-5) | 3 hours**

Prerequisite(s): NRSG 231, NRSG 305, NRSG 309; RN Licensure—A course that provides an opportunity for the student to develop leadership and management skills. This is accomplished primarily through leadership, models, management, and administrative experiences in selected clinical settings. Emphasis is placed on the role of the nurse manager in assuring quality of care to individuals and families in primary, secondary, and tertiary care settings. In order to meet the objectives of the course, a field trip may be required. Two hours theory, one hour clinical. Lab fee 9 will be assessed for this course.

**NRSG 494 - Transcultural Nursing (SERV-2) | 3 hours**

Prerequisite(s): NRSG 231, NRSG 305, NRSG 309—This course provides an opportunity for the student to examine the way in which values, beliefs, and cultural practices affect health and illness among individuals, families, groups, and communities. Lab fee 5 will be assessed for this course.

**NRSG 495 - Directed Study | 1-3 hours**

Prerequisite(s): Approval of the school dean—See NRSG 295 for course description.

**NRSG 497 - Research Methods in Nursing (W) | 3 hours**

Prerequisite(s): NRSG 231, NRSG 305, NRSG 309; ENGL 102—A course that introduces the research process and its application to the scientific investigation of nursing phenomena and problems related to systems, stressors, and preventions focused on achieving equilibrium. The learner completes a review of literature on a selected topic. Emphasis of the course is focused on skills required to understand, critically evaluate, and utilize research in practice. Lab fee 5 will be assessed for this course.

**Outdoor Leadership****OUTL 136 - Survey of Outdoor Adventures | 3 hours**

Prerequisite(s): PEAC 125—This course provides outdoor enthusiasts with an introduction to a wide variety of adventure activities including, but not limited to, challenge course, canoeing, rafting, rock climbing, caving, backpacking, horseback riding, mountain biking, and mountaineering. Safety, group dynamics, teamwork, problem solving, leadership skills, backcountry ethics, nature observations and spiritual insights are emphasized throughout the course. An extended multi-week expedition provides the core experience for this class. Lab fee 18 will be assessed for this course. (Summer/Winter)

**OUTL 218 - Fundamentals of Outdoor Leadership | 3 hours**

Prerequisite(s): OUTL 136 or consent of instructor—This course serves as a foundation for future outdoor educators, leaders, and professionals. It dives into the foundations of the leadership curriculum, expedition behavior and planning, risk management/hazard evaluation, and basic pedagogy of outdoor skills. The course will include a student-led expedition, will provide certification as a Leave No Trace Trainer, and can qualify students to lead adventure programming for the University. An off-campus field experience of up to four days may be required. Lab fee 7 will be assessed for this course. (Fall)

**OUTL 221 - Challenge Course Facilitator | 3 hours**

This course is cross-listed with PSYC 221. A student may receive credit for this course from only one program—This course presents the content, methods, and safety measures used for cooperative initiatives and challenge course facilitation. Students will learn to use and implement the challenge course as a personal growth and development tool for different age groups and diverse populations. They will learn how trust, goal setting, peak experiences, challenge, stress, problem solving, and fun are

key elements in effective challenge course facilitation. An off-campus field experience of up to four days may be required. Lab fee 11 will be assessed for this course. (Fall)

**OUTL 227 - Primitive Skills | 2 hours**

This course is designed to provide theory and field experience in primitive skills. Topics may include, but are not limited to: primitive clothing, shelter building, fire building, cooking, ethnobotany, burn and scrape vessels, clay pottery, flintknapping, cordage twining, basketry. An off-campus field experience of up to four days may be required. Lab fee 10 will be assessed for this course.

**OUTL 229 - Wilderness Survival | 2 hours**

This course combines mental and physical preparation for wilderness survival situations. Topics and skills developed include, but are not limited to: survival priorities and essentials, personal survival kits, shelter building, fire building, water purification, wilderness first aid, wild edible and useful plants, signaling, weather prediction, and navigation. An off-campus field trip of up to 4 days is required. Lab fee 10 will be assessed for this course.

**OUTL 265 - Outdoor Leadership Topics | 1-3 hours**

Selected topics in outdoor education curriculum, skills, counseling, environmental study, etc. This course may be repeated for credit. A lab fee will be assessed for this course.

**OUTL 295 - Directed Study | 1-3 hours**

This course permits the advanced student with adequate preparation to pursue independent study in special fields. This course may be repeated for credit.

**OUTL 318 - Wilderness First Responder | 3 hours**

This is a nationally recognized program that trains participants to respond to emergencies in remote settings. The course is designed specifically to provide the student with the tools to make critical medical and evacuation decisions in remote locations. Half of the time will be spent completing practical skills, case studies and scenarios designed to challenge decision-making abilities. The 80-hour curriculum includes standards for urban and extended care situations. Special topics include but are not limited to: wound management and infection, realigning fractures and dislocations, improvised splinting techniques, patient monitoring and long term management problems, up-to-date information on all environmental emergencies, plus advice on drug therapies. Emphasis is placed on prevention and decision-making, not the memorization of lists. The WMI Adult and Child CPR is included in the course. Lab fee 17 will be assessed for this course.

**OUTL 320 - Advanced Rock Climbing | 2 hours**

Prerequisite(s): ADAC 145 with minimum grade of B or permission of the instructor—The focus of this course is to develop competent and well-rounded leaders for rock climbing programs. Students must possess a current climbing résumé containing a minimum of forty (40) climbs to enroll in this course as well as pass a comprehensive basic skills exam at the onset of the class. Key components such as gear placement, anchor building, self-rescue, sport climbing, traditional lead climbing, and multi-pitch transitions will be emphasized on this course. Students will be encouraged to develop skills that will allow them to be safe and self-reliant climbers and have the situational awareness to be in a leadership role during group climbing situations. Students are expected to spend additional time outside of class practicing and perfecting techniques taught in class. Additionally, students are expected to add a minimum of thirty (30) lead climbs of sport, trad or “mock” trad in nature to their climbing résumé during the time of the class. An extended field experience of up to four days may be required. Lab fee 10 will be assessed for this course. (Alternating years)

**OUTL 325 - Confined Space Rescue | 2 hours**

This course is designed to meet the training requirements of 29 CFR 1910.146; 29 CFR 1910.146 (k), and NFPA 1670. Twenty-four (24) to forty (40) hours of intensive classroom and field instruction covers the basic skills needed to safely and efficiently perform confined space entry rescues. Topics covered in the program include assessment of confined space hazards, atmospheric monitoring, confined space rescue equipment use and limitations, knots, vertical and horizontal hauling, lowering systems, personal protective equipment and patient packaging. Topics of instruction may also include those of Permit-Required confined spaces: duties of supervisors, entrants and attendants, lock out/tag out procedures, atmospheric monitoring and non-entry rescue. An extended off-campus field experience of up to four days may be required. Lab fee 12 will be assessed for this course. (Alternating years)

**OUTL 330 - Wilderness Emergency Medical Technician | 3 hours**

Prerequisite(s): Students must be 18 years of age before the course start date, have a TB test completed less than one year prior to the last day of class, and have current healthcare provider level CPR certification—This course is the highest level of wilderness medicine training available. WMI's WEMT certification opens the door to a variety of career opportunities, such as EMT, ski patrol, SAR teams, or other emergency medical fields. This month-long intensive program combines wilderness medicine with urban medical emergencies. Students who successfully complete the course as well as both written and

practical examinations will be certified by the National Registry of Emergency Technicians' in Basic EMT and Wilderness EMT. Courses take place in North Carolina. Lab fee 21 will be assessed for this course and additional fees may apply. (Summer)

**OUTL 331 - Equine Behavior and Training Management | 1 hour**

Prerequisite(s): ADAC 148 and ADAC 248 or permission of instructor—This introductory course examines equine behavior and learning and its implications to training and management. Students develop an understanding and appreciation of inherent and learned horse behavior, become familiar with some of the methods and techniques used in training horses, and gain competence and confidence in handling and teaching horses basic desirable habits. Lab fee 12 will be assessed for this course.

**OUTL 335 - Challenge Course Management | 3 hours**

Prerequisite(s): OUTL 221 or permission of instructor—This course equips students with the skills required for the management of a challenge course as part of an outdoor education, adventure, or therapy facility. Topics include the construction of ropes course elements, instructional techniques, group debriefing skills, site inspection, safety and rescue, and equipment maintenance. This course meets the industry standards of Project Adventure and The Association of Challenge Course Technology (ACCT). (Alternating years)

**OUTL 346 - Swift Water/Advanced Swift Water Rescue | 2 hours**

Prerequisite(s): PEAC 125; OUTL 136, ADAC 146 or ADAC 161—This course teaches river professionals and recreational users how to handle swift water emergency situations. Classroom training combined with hands on, in-water scenarios will teach students skills such as swift water safety, self rescue, shore-based and boat-based rescues, unpinning boats, use of rope systems, and more. Successful completion of this course leads to American Canoe Association (ACA) Swift Water Rescue and Advanced Swift Water Rescue certifications. Participants must be competent swimmers. An extended off-campus field experience of up to four days may be required. Lab fee 16 will be assessed for this course. (Alternating years)

**OUTL 348 - AMGA Single Pitch Instructor Course | 2 hours**

Prerequisite(s): OUTL 320 or permission of instructor—The American Mountain Guides Association Single Pitch Instructor (AMGA SPI) Program is a nationally recognized training and certification course consisting of two parts: 1) a SPI Course and 2) a separate SPI Assessment. This program is designed to teach current, active rock climbers to proficiently facilitate and instruct the sport of rock climbing in a single pitch setting. Candidates should have a real desire to teach rock climbing to novices in a single pitch setting, be passionate rock climbers who regularly climb, and have been rock climbing outdoors for at least 12 months. An extended off-campus field experience up to four days is required for this course. Lab fee 17 will be assessed for this course. (Alternating years)

**OUTL 349 - AMGA Single Pitch Instructor Assessment | 1 hour**

Prerequisite(s): OUTL 348—The AMGA Single Pitch Instructor (SPI) Assessment is the second part of the AMGA SPI Program. The SPI Assessment is a two-day evaluation of a candidates' readiness to teach rock climbing in a single pitch setting as prescribed in the SPI Course. To qualify for this assessment candidates must have successfully completed the AMGA SPI Course within the previous three years. Upon the successful completion of the SPI Assessment, candidates will receive AMGA Single Pitch Instructor certification. An extended off-campus field experience up to four days is required for this course. Lab fee 15 will be assessed for this course.

**OUTL 353 - Vertical Caving | 2 hours**

Prerequisite(s): PEAC 125—Pre- or Co-requisite: ADAC 152 or permission of instructor—This course is designed to provide the knowledge and skills needed to participate in and to lead vertical caving activities. Emphasis will be placed on site use and management, specialized vertical caving equipment, descending and ascending single rope techniques, selection of personal equipment, group safety and rescue. Due to the nature of this course, all students will be required to make class field trips to caving sites in the surrounding area. An extended field experience of up to four days may be required. Lab fee 14 will be assessed for this course. (Alternating years)

**OUTL 354 - Rope Technician I | 2 hours**

Prerequisite(s): OUTL 320 or OUTL 353—Beyond a "get-to-know-your-knots" introduction, this is an advanced technical level, rope rigging course that teaches concepts and skills used by high angle search and rescue teams, firefighters, event riggers, and other professionals. Students will learn to apply the principles of mathematics and forces in the construction and operation of anchoring systems, pulley systems, and high lines. Successful completion of this course leads to NFPA 1006 Rope Technician certification. An off-campus field experience of up to four days may be required for this class. Lab fee 15 will be assessed for this class. (Alternating years)

**OUTL 356 - Outdoor Leadership—Field Experience | 3 hours**

Prerequisite(s): Five (5) hours of Outdoor Leadership. Admission to Outdoor Leadership—Field experience in an appropriate outdoor school, park, nature center, camp or other educational setting approved by the instructor. At least one hundred fifty (150) clock hours of work experience are required. Procedures and guidelines are available from the School of Education and Psychology.

**OUTL 391 - Outdoor Leadership Seminar (W) | 1 hour**

Prerequisite(s): OUTL 218 or permission of instructor. Junior or senior standing.—This course is designed to develop research, writing, and presentations skills within the context of contemporary and controversial outdoor leadership issues. Many of the issues studied relate to new developments within the industry and provide opportunity to critically examine implications of these developments for emerging practice. Controversial issues are faced squarely by students as they research, debate, and collaborate. At the conclusion of the course students must have finalized arrangements for their outdoor leadership practicum or field experience—(Fall)

**OUTL 425 - Wilderness Interpretation (W) | 3 hours**

This course provides the outdoor professional with a unique yet harmonious blending of nature studies and the creative arts. Students will learn to recognize much of our native fauna and flora while developing essential skills necessary for taxonomic identification. Nature studies will center on field-based observations, journaling, photography, and art. Selected writings from well-known conservationists and wilderness preservationists, such as Muir and Leopold, will be studied providing the inspiration and insight for developing interpretative methodology and creative writing skills. An extended 3-day field practicum is required. Lab fee 7 will be assessed for this course.

**OUTL 430 - Adventure Leadership | 3 hours**

Prerequisite(s): Minimum 12 OUTL credit; OUTL 318—This capstone course develops the design, knowledge, techniques and implementation for teaching and leading wilderness travel experiences and technical adventure activities. Topics relative to the wilderness leader covered by this course include: environmental ethics and issues, individual and group dynamics, accessibility, safety and liability considerations, and permitting agencies. Physical and emotional requirements appropriate to wilderness field experiences and the administration of adventure activities are also addressed. Students will develop a professional portfolio documenting their leadership experiences, professional resumé, research project and certifications earned. An extended field trip is required for this class. Lab fee 19 will be assessed for this course. (Alternating years)

**OUTL 435 - Winter Alpine Mountaineering | 2 hours**

Prerequisite(s): ADAC 145—Winter Alpine Mountaineering develops winter backcountry and climbing skills that enable the alpinist to ascent larger mountains in an expeditionary context which often involve winter-like conditions. This field-based course provides an introduction to winter mountaineering skills such as snow camping, ice climbing, snow travel, and avalanche safety. Due to the strenuous nature of this course, participants must be in excellent physical condition. Spring Break field experience required. Lab fee 17 will be assessed by this course.

**OUTL 465 - Outdoor Leadership Topics | 1-3 hours**

See OUTL 265 for course description. A lab fee will be assessed for this course.

**OUTL 492 - Outdoor Leadership Internship | 10 hours**

Prerequisite(s): OUTL 391. Admission to Outdoor Leadership Candidacy—Students work at an outdoor facility in the area of their specialization. This internship is a tailored program of seven hundred (700) clock hours of outdoor training experience in an outdoor program approved by the university. The time may be divided between two facilities to allow seasonal programming. Two on-site visits by the program director will be arranged by the student. Evaluation and reports will be required at one hundred (100) hour intervals. Procedures and guidelines are available from the School of Education and Psychology. Note: Senior status as an Outdoor Leadership major required.

**OUTL 495 - Directed Study | 1-3 hours**

See OUTL 295 for course description.

**Physical Education Activity****PEAC 121 - Walking/Jogging (P-1b) | 1 hour**

Prerequisite(s): PEAC 125—This course is designed to prepare the student for a lifetime of aerobic activity with low intensity but great results. The course will include but not be limited to: equipment, foot care, stride, pace, terrain, hydration, nutrition and supplements, calorie burning and metabolism, volks walks, race walking, logs and motivation. A wide variety for activities will be part of this course. A pedometer will be required. Offered on a rotating basis.

**PEAC 123 - Volleyball (P-1b) | 1 hour**

Prerequisite(s): PEAC 125—Development of the skills of passing, setting, serving, and spiking necessary in participation in power volleyball. (Winter)

**PEAC 125 - Fitness for Collegiate Life (P-1a) | 1 hour**

This course provides students with the knowledge and skills necessary for physical fitness and training. Fitness testing is completed to identify a starting point for developing a personalized fitness plan. Students will be taught how to do personal fitness assessments and learn how to train correctly for improving their physical fitness. Weekly activity logs will be completed. Lab fee 2 will be assessed for this course. This course cannot be taken as a pass/fail course.

**PEAC 131 - Badminton (P-1b) | 1 hour**

Prerequisite(s): PEAC 125—Instruction includes strokes, rules, and playing situations plus physical conditioning for badminton. Lab fee 3 will be assessed for this course. (Fall)

**PEAC 133 - Racquetball (P-1b) | 1 hour**

Prerequisite(s): PEAC 125—Focus is given to basic skills, rules, and terminology so that the student can carry on successful play. Each student will need to purchase their own racquet, goggles and racquet-balls.

**PEAC 134 - Basic Tennis (P-1b) | 1 hour**

Prerequisite(s): PEAC 125—This course is designed to provide the student with the knowledge and basic skill to play tennis as a lifetime activity. Skill emphasis includes the forehand, backhand, serve, volley, lob, and smash. Each student will need to purchase their own racquet. (Fall)

**PEAC 136 - Basic Golf (P-1b) | 1 hour**

Prerequisite(s): PEAC 125—A basic course for the beginning golfer. Transportation needed. Lab fee 4 will be assessed for this course.

**PEAC 137 - Cycling (P-1b) | 1 hour**

Prerequisite(s): PEAC 125—A course for the active cyclist emphasizing various types of cycling, cycling techniques, safe cycling, and maintenance. Each student provides his/her own bicycle and helmet. Lab fee 4 will be assessed for this course.

**PEAC 140 - Weight Training (P-1b) | 1 hour**

Prerequisite(s): PEAC 125—A course designed for the beginning weightlifter. Instruction is focused on the basic weight training lifts that leads to the students developing their own personal weight training program.

**PEAC 143 - Basic Tumbling (P-1b) | 1 hour**

Prerequisite(s): PEAC 125—Mat tumbling leading to gymnastic free-exercise routines in conjunction with acrosport exposure. Lab fee 5 will be assessed for this course.

**PEAC 153 - Basic Swimming (P-1b) | 1 hour**

Prerequisite(s): PEAC 125—The basic swimming course is dedicated to developing the safety and swimming skills necessary for maximum enjoyment of the swimming pool environment. The class will feature the development and refinement of the six swimming strokes. It is hoped that students will be able to swim these strokes with ease, efficiency, power, and smoothness over distance.

**PEAC 215 - Group In-Door Cycling (P-1b) | 1 hour**

Prerequisite(s): PEAC 125—A group fitness class that uses stationary bikes to create holistic physical health. Group in-door cycling exercises will be used to increase student aerobic fitness and to motivate students to pursue an active lifestyle.

**PEAC 223 - FitX (P-1b) | 1 hour**

Prerequisite(s): PEAC 125—A maximal fitness class that uses motor movements with a time component to create the most efficient, explosive and dynamic use of the body to advance physical fitness. Rope climbs, Kettlebells and other equipment, and body weight exercises will be used to prepare students for a high level of physical fitness. Circuit training will also be included.

**PEAC 225 - Fitness for Life (P-1a) | 1 hour**

This course includes a study of the basic areas of physical fitness and training, in conjunction with a personalized long-range conditioning program for optimal well-being. Principles of wellness are presented including assessments for nutrition, stress, and multiple areas of physical fitness. Lab fee 4 will be assessed for this course. (Fall, Winter, Summer)



**PEAC 230 - Women's Fitness (P-1b) | 1 hour**

Prerequisite(s): PEAC 125—This course is designed specifically to meet the health and fitness needs of women. Image, self-concept, and societal perceptions will be addressed. Basic assessments will be completed to develop a personalized fitness plan. Group activities will be conducted for motivation and instruction. Lab fee 1 will be assessed for this course.

**PEAC 231 - Aerobics (P-1b) | 1 hour**

Prerequisite(s): PEAC 125—An aerobic conditioning course that promotes enjoyment of aerobic fitness activities through a variety of means including: low/high impact, floor and kick boxing aerobics.

**PEAC 232 - Aerobic Fitness (P-1b) | 1 hour**

Prerequisite(s): PEAC 125 or PEAC 225—This course covers the basic components of aerobic fitness. The Rockport One-Mile Walk Test will be completed to develop a personalized action plan. Students will journal on-line about aerobic fitness topics and write reflective responses to the implementation of their action plan. The FitLinxx ActiPed/ActiLink system will be used to quantify daily activity. A minimum of 100 minutes per week is required. **(This is an online course offered for off-campus B.S. nursing students only.)**—Lab fee 6 will be assessed for this course.

**PEAC 235 - Personal Conditioning (P-1b) | 1 hour**

Prerequisite(s): PEAC 125—This course meets a wide variety of personal conditioning needs. The course is designed to help an individual assess, learn about and practice conditioning techniques for cardiovascular health, muscular strength and endurance, biomechanical flexibility and range of motion, and body composition.

**PEAC 241 - Triathlon (P-1b) | 1 hour**

Prerequisite(s): PEAC 125—An activity course that will promote participation in and appreciation of multisport activities as a lifelong pursuit. This course will include but not be limited to: training, equipment, clothing, nutrition, safety, basic to advanced skills, and event selection. Participation in a culminating official triathlon event (sprint or Olympic distance) is required for a passing grade. Lab fee 9 will be assessed for this course.

**PEAC 243 - Gymnastics Team (Gym-Masters) (P-1b) | 1 hour**

Prerequisite(s): PEAC 125—A “variety show” team which emphasizes acrosport, sports acrobatics, gymnastics, physical fitness and health. Admission will be based on satisfactory performance of try-out requirements. Participation in all tours is required. Due to program conflicts, second semester Gym-Masters will not enroll in classes that meet after 12:00 noon on Friday. This course may be repeated for credit.

**PEAC 247 - Active Brain (P-1b) | 1 hour**

Prerequisite(s): PEAC 125—This class will combine physical activity and mental challenges in the quest to improve emotional intelligence. A pre-and post-test of physical fitness and emotional intelligence will be conducted. Students are expected to record weekly physical activity participation. Lab fee 3 will be assessed for this course.

**PEAC 254 - Lifeguarding (P-1b) | 1 hour**

Prerequisite(s): PEAC 125. 500 yards continuous swim—This course is cross-listed with RECR 254. A student may receive credit for this course from only one program—Students will earn the American Red Cross Lifeguarding certification, First Aid and CPR/AED certification. The purpose of this course is to provide entry-level lifeguard candidates with the skills and knowledge to prevent, recognize, and respond to emergencies and to provide care for injuries and sudden illnesses until advanced medical personnel arrive and take over. Lab fee 4 will be assessed for this course.

**PEAC 257 - Pilates (P-1b) | 1 hour**

Prerequisite(s): PEAC 125—The foundation of movement is “holding yourself upright.” That is what CORE muscles do. Far too often today’s lifestyle promotes poor posture and misalignment that can be corrected with strengthening CORE MUSCLES.

**PEAC 261 - Introduction to Recreation (P-1b) | 1 hour**

Prerequisite(s): PEAC 125—A course designed to promote outdoor recreation and provide experience for those interested in preparing for different phases of camp life, outdoor living and activities.

**PEAC 265 - Topics in Physical Activity | 1-3 hours**

Topics selected from areas of physical activity not covered in other courses. This course may be repeated for credit.

**PEAC 425 - Fit for Hire (P-1c) | 1 hour**

Prerequisite(s): PEAC 125 and completion of 2 additional activity courses. Senior class standing only—This capstone course is designed to prepare students as they commit to and prepare for a life of

balance, wholeness, and personal responsibility for their own wellbeing. This course guides students as they reflect on their past fitness plan experiences while developing lifetime fitness goals. Fitness testing is completed to identify current fitness levels. Students will implement their personalized fitness plan and create a post-college fitness plan. Wellness principles will be discussed as they relate to physical fitness and overall health.

## Physical Education Theory

### **PETH 114 - ProAct – Softball | 1 hour**

Development of professional skills including performance and teaching techniques for softball. For Physical Education and Sports Studies majors and minors only.

### **PETH 116 - ProAct – Volleyball | 1 hour**

Development of professional skills including performance and teaching techniques for volleyball. For Physical Education and Sports Studies majors and minors only.

### **PETH 117 - ProAct – Basketball | 1 hour**

Development of professional skills including performance and teaching techniques for basketball. For Physical Education and Sports Studies majors and minors only.

### **PETH 119 - ProAct – Soccer | 1 hour**

Development of professional skills including performance and teaching techniques for soccer. For Physical Education and Sports Studies majors and minors only.

### **PETH 210 - Group Fitness Instructor | 2 hours**

Prerequisite(s): PEAC 225—This course is cross-listed with RECR 210. A student may receive credit for this course from only one program—A course that will prepare a student to take the certification exam for Aerobic Instructors. A certified Instructor will teach this course that will deal with the theory and practice of a variety of aerobic styles. Safety and correct methods will be emphasized. Lab fee 10 will be assessed for this course.

### **PETH 214 - ProAct – Tennis | 1 hour**

Development of professional skills including performance and teaching techniques for tennis. For Physical Education and Sports Studies majors and minors only.

### **PETH 216 - ProAct – Fitness for Life | 1 hour**

Development of professional skills including performance and teaching techniques for conditioning. For Physical Education and Sports Studies majors and minors only.

### **PETH 217 - ProAct – Badminton | 1 hour**

Development of professional skills including performance and teaching techniques for badminton. For Physical Education and Sports Studies majors and minors only.

### **PETH 219 - ProAct – Gymnastics | 1 hour**

Development of professional skills including performance and teaching techniques for gymnastics. For Physical Education and Sports Studies majors and minors only.

### **PETH 240 - Coaching for Success | 2 hours**

A study and discussion into sports team organization, recruiting, picking teams, training, game preparation, travel budget, crowd control, facilities management, fund raising, game safety and control, and coaches decorum. Special emphasis will include keeping the game in a “Christian perspective” and establishing a personal coaching philosophy. (Winter)

### **PETH 255 - Water Safety Instructor | 1 hour**

Prerequisite(s): PEAC 254 or equivalent. Must meet stroke performance standards for American Red Cross Swim Level 5—Students will earn the American Red Cross Water Safety Instructor certification. The purpose of the American Red Cross Water Safety Instructor course is to train instructor candidates to teach courses and presentations in the American Red Cross Swimming and Water Safety program by developing their understanding of how to use the course materials, how to conduct training sessions and how to evaluate participants' progress. Lab fee 4 will be assessed for this course.

### **PETH 265 - Topics in Theory | 1-3 hours**

Topics selected from areas of physical education theory not covered in other courses. This course may be repeated for credit.

**PETH 295 - Directed Study | 1-3 hours**

For Physical Education majors or minors only. Gives the student the opportunity to pursue knowledge in an area of interest related to health, PE, or recreation. Approval by School Dean required. (Fall, Winter, Summer)

**PETH 314 - Biomechanics | 3 hours**

Prerequisite(s): BIOL 101 - BIOL 102 with a grade of C- or better—A study of the anatomical and mechanical variables influencing human motion for efficient, safe, and effective movement. The historical impact of leaders in physical education is studied, as well as statistical analysis of data. (Fall)

**PETH 315 - Physiology of Exercise (W) | 4 hours**

Prerequisite(s): BIOL 101 - BIOL 102 with a grade of C- or better—Emphasizing the physiological effects of muscular exercise, aerobics, and physical conditioning. Significance of these effects for health, skilled performance, and prevention of disease. Research required. Lab Fee 6 will be assessed for this course. (Winter)

**PETH 325 - Personal Trainer | 2 hours**

Prerequisite(s): PEAC 225—This course is cross-listed with RECR 325. A student may receive credit for this course from only one program—This course is designed to prepare a student to pass a national exam to become a Certified Personal Trainer. This course requires twenty (20) hours of observation/practical experience outside of class. Lab fee 10 will be assessed for this course. (Fall)

**PETH 363 - Tests and Measurements in Health and Physical Education | 3 hours**

A survey of tests used in Physical Education and an introduction to statistical procedures for analyzing data and how it may be applied to research. Test Construction and historical perspectives of physical education are dealt with. (Fall)

**PETH 364 - Principles and Administration of Physical Education and Recreation (W) | 3 hours**

This course is an integrated study of the principles and administrative concepts of physical education and recreation. Emphasis is placed on the management and administrative skills needed for physical education and corporate and community wellness majors. (Winter)

**PETH 375 - Motor Learning and Development | 3 hours**

A course of study designed to examine motor development and motor behavior as it relates to an individual's maturation process, with emphasis placed on implications for the physical educator. Laboratory experiences are conducted to advance student comprehension of motor learning concepts. (Winter)

**PETH 437 - Adaptive Physical Education | 2 hours**

A course designed to develop an understanding of neurodevelopment and functional ability, of impairments and their implications for motor performance. Emphasis on teaching progressions and exercise programs for special populations. (Fall)

**PETH 441 - Secondary Physical Education Methods | 2 hours**

Prerequisite(s): Admission to Teacher Education—The class is designed to provide instruction to pre-service teachers as to the different styles of teaching secondary physical education. Other topics include teacher effectiveness, systematic observation analysis, standards based curriculum planning, and authentic assessment. The class includes observation and practice teaching at local schools

**PETH 463 - Elementary School Physical Education Methods | 2 hours**

This course is designed to introduce the prospective elementary school classroom teacher and physical education teacher to the goals, content, teaching methods, and planning of elementary physical education. The course focuses on assisting the student in learning and practicing pedagogical skills and principles as they apply to a wide variety of physical activities. (Fall, Summer)

**PETH 465 - Topics in Theory | 1-3 hours**

Topics selected from areas of physical education theory not covered in other courses. This course may be repeated for credit.

**PETH 474 - Psychology and Sociology of Sports (W) | 2 hours**

An exploration of sports and their evolving impact on American culture. Special attention is given to current issues in sports as they relate to the individual in society. (Fall)

**PETH 495 - Directed Study (W) | 1-3 hours**

See PETH 295 for course description.

## Photography

### **PHTO 125 - Introduction to Photography (S-3c) | 3 hours**

Instruction in use of the camera and light meter; study of elements that constitute good photo composition, darkroom techniques involving film development, negative enlargement, and print finishing. Students supply their own 35mm cameras with adjustable f-stops and shutter speeds. A limited number of rental cameras are available. Two hours of lecture, three hours of laboratory each week. Lab fee 10 will be assessed for this course.

### **PHTO 265 - Topics in Photography | 1-3 hours**

Selected topics in photography and related areas presented in a classroom setting. This course may be repeated for credit.

### **PHTO 275 - Applied Photojournalism | 1 hour**

Prerequisite(s): Consent of instructor before arranging for practicum—During one semester or summer, the student will work as a staff photographer for the Southern Accent or part-time at another weekly or daily newspaper. Student will gain a wide variety of experience shooting news, sports, and feature assignments under deadline pressure.

### **PHTO 291 - Practicum | 1-3 hours**

Prerequisite(s): Consent of instructor before arranging for practicum—Supervised work experience in photography. At least 90 clock hours of work experience are required for each semester hour of credit. Procedures and guidelines are available from the School.

### **PHTO 295 - Directed Study | 1-3 hours**

The content of this course will be adjusted to meet the particular needs of the student. Open only to students approved by the School dean in consultation with the prospective instructor. This course may be repeated for credit.

### **PHTO 315 - Photojournalism | 3 hours**

This course is cross-listed with JOUR 315. A student may receive credit for this course from only one program—See JOUR 315 for course description. Lab fee 10 will be assessed for this course.

### **PHTO 320 - Digital Photography | 3 hours**

Prerequisite(s): PHTO 125—Students will learn image-capture processing and outputting of digitized photographic images utilizing Adobe Photoshop. Emphasis is on studio, wedding, and even photography. Topics include environmental and group portraits, illustrative techniques, industrial and commercial photography. Students supply their own digital SLR cameras. A limited supply of digital SLRs are available for \$100 rental fee. Lab fee 11 will be assessed for this course.

### **PHTO 391 - Practicum | 1-3 hours**

Prerequisite(s): Consent of instructor before arranging for practicum—See PHTO 291 for course description.

### **PHTO 447 - Senior Portfolio | 1 hour**

Prerequisite(s): Senior standing—Preparation and presentation of a print and online portfolio as required by most employers and graduate schools. The student will assemble 20 to 30 images, including a photo essay appropriate to his or her professional, educational or personal goals. Student will present the portfolio to an evaluation team consisting of faculty and at least one media professional. Lab fee 6 will be assessed for the course.

### **PHTO 465 - Topics in Photography | 1-3 hours**

See PHTO 265 for course description.

### **PHTO 492 - Photography Internship | 3 hours**

Prerequisite(s): Completion of at least half the requirements for a major or minor in photography and School approval—Students gain field experience in photography in a setting such as a newspaper or other publication, a studio, or other professional environment. This would occur preferably during an 8 to 12 week period the summer between the junior and senior year when no other college course is taken. At least 300 clock hours of work experience are required. Procedures and guidelines are available from the School.

### **PHTO 495 - Directed Study | 1-3 hours**

See PHTO 295 for course description.

## Physics

### **PHYS 127 - Exploring Physics I (I-4d) | 3 hours**

An in-depth exploration of various fundamental topics in physics in an activity-based, directed-inquiry (lab/lecture) format. Topics may include motion, heat, and energy. Lab fee 5 will be assessed for this course. (Fall)

### **PHYS 128 - Exploring Physics II (I-4d) | 3 hours**

An in-depth exploration of various fundamental topics in physics in an activity-based directed-inquiry (lab/lecture) format. Topics may include fluids, light, sound, electricity, magnetism, and mathematical modeling. (PHYS 127 is not a prerequisite for PHYS 128.) Lab fee 5 will be assessed for this course. (Winter)

### **PHYS 155 - Descriptive Astronomy: Creation and Cosmology (I-4d) | 3 hours**

An introduction to constellations, galaxies, nebulae, and the structure and space-time behavior of the universe. Nighttime observations are compared with theoretical models of apparent and heliocentric planetary and stellar motion. Applied topics may include the use of instruments to determine time, telescopes used to detect radiations (cosmic rays to radio waves) from stars, nebulae, and galaxies, and information about these objects obtainable from continuous and line spectra. A Scriptural perspective, including allusions in religious tradition, is compared with a naturalistic perspective. Three hours lecture each week, with optional opportunities for an observation period. (Fall)

### **PHYS 211 - General Physics I (I-4d) | 3 hours**

Prerequisite(s): MATH 120 and MATH 121, or MATH 191—The algebraic and trigonometric treatment of mechanics, heat, and sound. Applies toward the basic science requirement as a non-laboratory science if taken alone and as a laboratory science if taken with PHYS 213.

### **PHYS 212 - General Physics II (I-4d) | 3 hours**

Prerequisite(s): MATH 120 and MATH 121, or MATH 191; PHYS 211—The algebraic and trigonometric treatment of light, electricity and magnetism, and “modern physics.” Applies toward the basic science requirement as a non-laboratory science if taken alone and as a laboratory science if taken with PHYS 214.

### **PHYS 213 - General Physics Laboratory I | 1 hour**

Prerequisite(s): Previous or concurrent enrollment in PHYS 211 - PHYS 212 or PHYS 221 - PHYS 222—Laboratory experience designed to illustrate the material in lectures, to familiarize the student with useful measuring apparatus, and to encourage a systematic development of scientific curiosity, caution, and method. Lab fee 1 will be assessed for this course. (Fall, Winter)

### **PHYS 214 - General Physics Laboratory II | 1 hour**

Prerequisite(s): Previous or concurrent enrollment in PHYS 211 - PHYS 212 or PHYS 221 - PHYS 222; PHYS 213—Laboratory experience designed to illustrate the material in lectures, to familiarize the student with useful measuring apparatus, and to encourage a systematic development of scientific curiosity, caution, and method. Lab fee 1 will be assessed for this course. (Fall, Winter)

### **PHYS 215 - General Physics Calculus Applications | 1 hour**

Prerequisite(s): MATH 191; previous or concurrent enrollment in PHYS 211 - PHYS 212—Derivations and problems in General Physics using differential and integral calculus will be studied. Students completing PHYS 211 - PHYS 212 and PHYS 215, PHYS 216 will have taken the equivalent of General Physics with calculus. Two class periods per week.

### **PHYS 216 - General Physics Calculus Applications | 1 hour**

Prerequisite(s): MATH 191; previous or concurrent enrollment in PHYS 211 - PHYS 212—Derivations and problems in General Physics using differential and integral calculus will be studied. Students completing PHYS 211 - PHYS 212 and PHYS 215, PHYS 216 will have taken the equivalent of General Physics with calculus. Two class periods per week.

### **PHYS 221 - University Physics I (I-4d) | 4 hours**

Pre- or Co-requisites: MATH 191—The calculus-based treatment of mechanics, heat, and sound. Applies toward the basic science requirement as a non-laboratory science if taken alone and as a laboratory science if taken with PHYS 223.

### **PHYS 222 - University Physics II (I-4d) | 4 hours**

Prerequisite(s): PHYS 221—Pre- or Co-requisites: MATH 191—The calculus-based treatment of light, electricity and magnetism, and “modern physics.” Applies toward the basic science requirement as a non-laboratory science if taken alone and as a laboratory science if taken with PHYS 224.

**PHYS 223 - University Physics Laboratory I | 1 hour**

Pre- or Co-requisite: PHYS 221—Laboratory experience designed to illustrate the material in PHYS 221 and PHYS 222, to familiarize the student with useful measuring apparatus, and to encourage a systematic development of scientific curiosity, caution, and method. Data analysis may require the use of calculus concepts. Lab fee 1 will be assessed for this course.

**PHYS 224 - University Physics Laboratory II | 1 hour**

Prerequisite(s): PHYS 223—Pre- or Co-requisite: PHYS 222—Laboratory experience designed to illustrate the material in PHYS 221 and PHYS 222, to familiarize the student with useful measuring apparatus, and to encourage a systematic development of scientific curiosity, caution, and method. Data analysis may require the use of calculus concepts. Lab fee 1 will be assessed for this course.

**PHYS 255 - Tutoring Physics (SERV-2) | 1 hour**

Prerequisite(s): Must be a Physics or Engineering major; Successful completion of PHYS 222—PHYS 224—In this course, students will gain knowledge of current research that provides information about learning and learning styles. They will learn and demonstrate good pedagogical tools that promote learning in Physics. They will be trained with effective one-on-one teaching methodologies such as Socratic dialogue, concept modeling and scaffolding. They will also be instructed in methods that will help identify common physical misconceptions that cause the learner difficulty with physics. Active tutoring, totaling 15 hours during the semester, will allow the tutors to use the identification tools and instructional methods mastered so that they can become adept at working with all types of learners and subject materials.

**PHYS 265 - Topics in Physics | 1-3 hours**

Selected topics presented in a formal classroom setting in specialty areas of physics not covered in regular courses. May be repeated for credit for different topics.

**PHYS 295 - Directed Study | 1-3 hours**

Prerequisite(s): Consent of instructor—This course consists of individual or group work adjusted to meet particular needs in Physics. Approval must be secured from the instructor prior to registration. This course may be repeated for credit. (Fall, Winter)

**PHYS 297 - Undergraduate Research in Physics | 1-2 hours**

Prerequisite(s): Permission of instructor—Research under direction of a member of the staff. The topic will be assigned in accordance to the interests and capabilities of the student. It is assumed that the student is familiar with one or more spreadsheets, mathematics manipulation programs, and graphing software packages. May be repeated for up to four hours. (Fall, Winter; May be accomplished on a coop basis during the Summer.)

**PHYS 305 - Biophysics | 3 hours**

Prerequisite(s): PHYS 221 - PHYS 222; MATH 191; High school biology and chemistry—Physics principles will be used to address a variety of problems that arise in biological systems. Topics may include Brownian motion and diffusion, fluids, self-assembly, molecular machines, membranes and nerve impulses. (Winter, odd years)

**PHYS 310 - Modern Physics | 3 hours**

Prerequisite(s): PHYS 221 - PHYS 222; MATH 192—The origins of modern physics, quantum theory, the theory of relativity, nuclear physics. Laboratory experience is available in PHYS 325. Three hours lecture each week. (Fall)

**PHYS 313 - Physical Optics | 3 hours**

Prerequisite(s): PHYS 221-PHYS 222; MATH 192—Refraction, reflection, interference, absorption, and polarization of light are discussed from the standpoint of the ray and especially of the wave theories of light. Laboratory experience is available in PHYS 325. (Winter, even years)

**PHYS 316 - Mathematics of Physics | 3 hours**

Prerequisite(s): PHYS 310; MATH 315—This course is cross-listed with MATH 316, Math Department. A student may receive credit for this course from only one program—See MATH 316 for course description.

**PHYS 317 - Issues in Physical Science and Religion (I-4d) | 3 hours**

Prerequisite(s): One year of high school physics or chemistry or one semester of college physics or chemistry; junior standing—This course is cross-listed with RELT 317, School of Religion. A student may receive credit for this course from only one program—Scientific method, truth, reality, logic and derivability, authority/inspiration, faith and reason in mathematics and physical sciences. Non-logical factors in acceptance of scientific statements as authoritative. Arguments for the existence of God. Causality, determinism and miracles. Scientific revolutions and paradigm shifts with relation to trends in religion and philosophy. Does not apply to a major in or minor in Physics. (Winter)

**PHYS 325 - Advanced Physics Laboratory I | 1 hour**

Prerequisite(s): PHYS 223 - PHYS 224, PHYS 310—Laboratory experiments pertinent to areas of physics except electricity and magnetism. Meets once per week.

**PHYS 326 - Advanced Physics Laboratory II | 1 hour**

Prerequisite(s): PHYS 223 - PHYS 224, PHYS 310—Laboratory experiments pertinent to electricity and magnetism. Meets once a week.

**PHYS 400 - Physics Portfolio | 1 hour**

Each student majoring in Physics may compile a portfolio consisting of records of participation in professional activities as suggested by departmental faculty and as initiated by the student. Examples of activities include but are not limited to the following: attendance at club meetings, professional film showings, visiting-scientist seminar, and research review sessions, reading of journals and books, participation at professional meetings, preparation for graduate school and for employment, and lists of concepts or new ideas. The portfolio is reviewed upon the student's registration for this course during the senior year. The grade earned for this credit will depend upon the persistence of the student in participation during his/her stay at Southern Adventist University and during summers, and upon the breadth and depth of the entries. It also depends upon the student having his/her portfolio reviewed by the Department at the end of each preceding semester, and the extent to which the Department's suggestions on those occasions are implemented.

**PHYS 411 - Thermodynamics | 3 hours**

Prerequisite(s): PHYS 310; MATH 192—A study of gases, kinetic theory, and quantum statistics. Emphasis is placed on being able to use thermodynamics data in the literature. Three hours of lecture each week. Laboratory experience is available in PHYS 497. (Fall, even years)

**PHYS 412 - Quantum Mechanics | 3 hours**

Prerequisite(s): PHYS 310; MATH 315—The limits to classical physics; wave packets, the Schrodinger equation, eigenfunctions and eigenvalues, one-dimensional potentials, the solution of the Schrodinger equation in spherical-polar coordinates for the hydrogen atom. Operator methods; operators, matrices, and spin. (Winter, odd years)

**PHYS 413 - Analytic Mechanics | 3 hours**

Prerequisite(s): PHYS 310; MATH 218, MATH 315 (MATH 316, MATH 317, MATH 318, MATH 411-MATH 412 desirable)—The motion of a particle in gravitational and other classical fields is attacked using the techniques of differential equations in the Newtonian, Lagrangian and Hamiltonian forms. Special functions, vector theorems, transforms, and tensors are introduced as needed. Laboratory experience is available in PHYS 497. (Fall, odd years)

**PHYS 414 - Electrodynamics I | 3 hours**

Prerequisite(s): PHYS 310; MATH 218, MATH 315, (MATH 316, MATH 317, MATH 318, MATH 411-MATH 412 desirable)—Analysis of electrical circuits, electrostatic and magnetostatic fields, and the motion of charges therein. Maxwell's equations and the consequent prediction of electro-magnetic waves. Applications to modern atomic and nuclear theory are stressed. Complex mapping, vector theorems, transforms, and special functions may be used. Laboratory experience is available in PHYS 326. (Fall, even years)

**PHYS 415 - Electrodynamics II | 3 hours**

Prerequisite(s): PHYS 414; (MATH 316, MATH 317, MATH 318, MATH 411-MATH 412 desirable)—Analysis of electrical circuits, electrostatic and magnetostatic fields, and the motion of charges therein. Maxwell's equations and the consequent prediction of electro-magnetic waves. Applications to modern atomic and nuclear theory are stressed. Complex mapping, vector theorems, transforms, and special functions may be used. Laboratory experience is available in PHYS 326. (Winter, odd years)

**PHYS 418 - Advanced Quantum Mechanics I | 3 hours**

Prerequisite(s): PHYS 412; (MATH 316, MATH 317, MATH 318, MATH 411-MATH 412 desirable)—Builds on the foundation developed in PHYS 412. Time-independent perturbation theory; corrections to the hydrogen-atom treatment; Scattering theory; quantum statistics; variation techniques for small atoms and molecules, other atoms and the periodic table; emission and absorption of radiation from atoms. (Fall, odd years)

**PHYS 419 - Advanced Quantum Mechanics II | 3 hours**

Prerequisite(s): PHYS 418; (MATH 316, MATH 317, MATH 318, MATH 411 - MATH 412 desirable)—Builds on the foundation developed in PHYS 418. Overarching review of quantum physics concepts and methods; complex problems integrating multiple concepts covered in PHYS 412 and PHYS 418 from textbooks and literature. Advanced topics might include group dynamics approach to particle classification, introduction to quantum field theory, or other topics as dictated by the interest of the professor and students. (Winter, even years)

**PHYS 465 - Topics in Physics | 1-3 hours**

See PHYS 265 for course description.

**PHYS 480 - Scientific Writing and Presentation (W) | 1 hour**

Prerequisite(s): COMM 135 Principles and techniques of writing for news releases, periodicals, and research journals—Practice in scientific meeting oral and poster-session presentation. It is expected that the written reports be done with a word processor and that the student will have done some original research of an experimental, computational, or theorem-proving nature before enrolling in this course. PHYS 295/PHYS 495 and PHYS 297/PHYS 497 exist to fulfill this requirement and there are numerous opportunities with pay at universities and national laboratories during the student's junior-senior summer. (Fall)

**PHYS 495 - Directed Study | 1-3 hours**

Prerequisite(s): Consent of instructor—See PHYS 295 for course description.

**PHYS 497 - Undergraduate Research in Physics | 1-2 hours**

Prerequisite(s): Permission of instructor—See PHYS 297 for course description.

## Political Science

**PLSC 224 - Principles of Macroeconomics (I-5) | 3 hours**

This course is cross-listed with ECON 224, School of Business and Management. A student may receive credit for this course from only one program—See ECON 224 for course description.

**PLSC 254 - American National and State Government (I-3b) | 3 hours**

An examination of the operation of the executive, legislative, and judicial branches of government of the national, state, and local levels.

**PLSC 265 - Topics in Political Science | 1-3 hours**

Selected topics in political science presented in classroom setting. This course may be repeated for credit.

**PLSC 291 - Political Science Practicum | 3-6 hours**

Prerequisite(s): Permission of Instructor—Supervised work experience in a state legislative, congressional, or other governmental office. A minimum of 50 clock hours for each hour of credit is required.

**PLSC 295 - Directed Study | 1-3 hours**

A course emphasizing individual directed study. The instructor to whom a student is assigned will determine whether credit is upper or lower division. This course also includes credit offered by the History Department on directed study tours. Writing emphasis credit for PLSC 495 only. Approval of the department is required prior to registration.

**PLSC 345 - Middle Eastern Politics and History (W) | 3 hours**

This course is cross-listed with HIST 345. A student may receive credit for this course from only one program—See HIST 345 for course description.

**PLSC 353 - From Colony to Nation (W) | 3 hours**

A study of the colonial phase of American history with particular emphasis on the political texts of the age.

**PLSC 357 - Modern America (W) | 3 hours**

A Study of Twentieth-century political developments in the United States, focusing especially on the presidency, Supreme Court, and foreign affairs.

**PLSC 388 - Contemporary Europe (W) | 3 hours**

This course is cross-listed with HIST 388. A student may receive credit for this course from only one program—See HIST 388 for course description.

**PLSC 465 - Topics in Political Science | 3 hours**

See HIST 465 for course description.

**PLSC 471 - Classics of Western Thought I (W) | 3 hours**

This course is cross-listed with HIST 471. A student may receive credit for this course from only one program—See HIST 471 for course description.

**PLSC 472 - Classics of Western Thought II (W) | 3 hours**

This course is cross-listed with HIST 472. A student may receive credit for this course from only one program—See HIST 472 for course description.



**PLSC 491 - Political Science Practicum | 3-6 hours**

Prerequisite(s): Permission of Instructor—See PLSC 291 for course description.

**PLSC 495 - Directed Study (W) | 1-3 hours**

See PLSC 295 for course description

**Public Relations****PREL 235 - Public Relations Principles and Theory | 3 hours**

Basic Public Relations principles, philosophy, and theory as they relate to the historical development and contemporary practice of public relations; analysis of the public relations role in business, industry, and nonprofit organizations, and of the functions and responsibilities of the public relations practitioner.

**PREL 265 - Topics in Public Relations | 1-3 hours**

Selected topics in public relations and related areas presented in a classroom setting. This course may be repeated for credit.

**PREL 291 - Practicum | 1-3 hours**

Prerequisite(s): Consent of instructor before arranging for practicum—Supervised work experience in public relations, advertising, or sales. At least 90 clock hours of work experience are required for each semester hour of credit. Procedures and guidelines are available from the school.

**PREL 295 - Directed Study | 1-4 hours**

For students who want to do independent research and writing in a specialized area of public relations, advertising or marketing. Directed study topics will be selected with guidance from the instructor who will serve as a consultant to the student in carrying out the project.

**PREL 344 - Fundamentals of Advertising | 3 hours**

This course is designed to give the student a thorough overview of the business of advertising. Principal topics considered include advertising theories, the relationship between marketing and advertising, Integrated Marketing Communication, media planning, and advertising research. The course also includes an introduction to creative direction, copywriting, advertising research, and the process of planning and preparing advertisements.

**PREL 355 - Advertising Copywriting | 3 hours**

Principles and practices in writing and preparing advertising messages for the mass media. Analysis of successful advertising copy as well as opportunity for students to develop their own copywriting skills are part of the course. Social responsibility and ethics of the advertiser and copywriter are an integral part of instruction. (Winter, odd years)

**PREL 368 - Fundraising for Nonprofits (SERV-2) | 3 hours**

Study of fund-raising principles and concepts; techniques used in planning, organizing, and carrying out a fund-raising campaign; developing prospect lists, writing proposals, identifying and training development leadership, and working with foundations.

**PREL 391 - Practicum | 1-3 hours**

Prerequisite(s): Consent of instructor before arranging for practicum—See PREL 291 for course description.

**PREL 392 - Public Relations Internship | 1-3 hours**

Prerequisite(s): Completion of at least half the requirements for a major or minor in public relations or advertising and School approval—Students work off-campus in a professionally supervised role in the field of advertising or public relations to obtain on-the-job experience during the school year or during the summer. For each hour of academic credit, 100 clock hours of work experience are required. Detailed procedures and guidelines are available from the School.

**PREL 455 - Public Relations Strategy and Management | 3 hours**

This capstone course analyzes the changing public relations environment from a managerial perspective. Topics include the growing need for strategic planning, measurement of return on investment, credibility management, crisis communication, and management of social media. Senior communication professionals will be invited to present “real life” challenges they have confronted. Through case review, discussion of reputation issues in the news, and class presentations, students will focus on strategic thinking and creative approaches to management responsibilities in public relations.

**PREL 465 - Topics in Public Relations | 1-3 hours**

See PREL 265 for course description.

**PREL 482 - The Public Relations Campaign | 3 hours**

Prerequisite(s): PREL 235—The public relations function in the context of the organizational communications and decision-making process. Application of communications theory and techniques in developing both internal and external communications campaigns; selected case studies.

**PREL 485 - Public Relations Techniques | 3 hours**

Prerequisite(s): JOUR 205, JOUR 208; PREL 235—Communication techniques used in public relations to identify and reach specified audiences through mass media channels and through controlled media. Preparation of press releases, brochures, newsletters, reports, audio-visuals, speeches, and media campaigns; planning and conducting special events.

**PREL 492 - Public Relations Internship | 3 hours**

Prerequisite(s): Completion of at least half the requirements for a major or minor in public relations, advertising, or sales and School approval—Students work in the field of advertising, sales, or public relations to obtain on-the-job experience, preferably during an 8 to 12 week period the summer between the junior and senior year when no other college course is taken. At least 300 clock hours of work experience are required. Detailed procedures and guidelines are available from the School.

**PREL 495 - Directed Study | 1-4 hours**

See PREL 295 for course description.

## Psychology

**PSYC 100 - Careers in Psychology (SERV-2) | 1 hour**

A seminar with a service learning component that introduces prospective psychology majors and minors to the field of psychology with its many and varied areas of specializations. The course focuses on the critical steps needed to be taken in the process of becoming a psychologist and an overview of the psychology programs offered at Southern Adventist University. One major requirement of the course is a 15-clock hour service learning activity. (Winter)

**PSYC 101 - Psychology of Personal and Social Adjustment (S-2) | 3 hours**

This course will provide an opportunity for students to gain insight into their own behavior as well as that of others. Goals for this course include: understanding strategies for personal adjustment and growth across the life span, dealing with life changes and developing adequate coping mechanisms for making self-affirming life choices, maintaining health, managing stress, relating to others in one's social environments, and developing effective interpersonal relationships. Strategies for exploring life options and making effective decisions are emphasized. Importance is placed on the role of beliefs and values in the decision-making process and the problems that arise out of value conflicts.

**PSYC 122 - General Psychology (S-2) | 3 hours**

A beginning course in the basic principles and concepts of psychology. This course provides an exposure to a wide variety of human behaviors, which may include but are not limited to: sensation, perception, learning, memory, thinking, development motivation and personality. Included in this course are twenty (20) hours of active learning experience, which may include field experiences outside the classroom. Required of PSYC majors.

**PSYC 128 - Developmental Psychology (S-2) | 3 hours**

This general education course is a study of human development from a lifespan perspective. Emphasis is placed on the scientific study of growth and change in the areas of physical, cognitive, socioemotional, and spiritual development of the individual.

**PSYC 221 - Challenge Course Facilitator | 3 hours**

This course is cross-listed with OUTL 221. A student may receive credit for this course from only one program. See OUTL 221 for course description. Lab fee 11 will be assessed for this course. (Fall)

**PSYC 224 - Social Psychology (S-2) | 3 hours**

This course is cross-listed with SOCI 224. A student may receive credit for this course from only one program—A study of human behavior as affected in the context of the social world. Dynamics of groups, social roles, communication, and mass behavior are focuses of consideration. (Fall)

**PSYC 227 - Cognitive Psychology | 3 hours**

Prerequisite(s): PSYC 122—This course is an introduction to the area of psychology which deals with how human beings process information about the world. The course focuses on how individuals attend to and obtain information about the world, how the brain stores and processes that information, and how individuals think, solve problems and use language. Specific topics such as attention, perception, memory and problem solving are addressed. This course requires fifteen (15) hours of community service. (Fall)

**PSYC 231 - Multicultural Relations (I-3b) | 3 hours**

This course is cross-listed with FMST 230, SOCI 230, and SOCW 230. A student may receive credit for this course from only one program—See SOCI 230 for course description. Lab fee 1 will be assessed for this course.

**PSYC 233 - Human Sexuality (S-2) | 3 hours**

This course is cross-listed with FMST 233, SOCI 233 and SOCW 233. A student may receive credit for this course from only one program—See FMST 233 for course description.

**PSYC 241 - Psychology of Exceptional Children and Youth | 2 hours**

This course provides an overview of a wide range of exceptional individuals—from those with disabilities to the economically disadvantaged. The course addresses the learning and adjustment problems of exceptional children and youth from birth to twenty-one (21) years of age. Issues relevant to families with exceptional children, professionals serving this population, and community and societal factors are considered.

**PSYC 250 - Death and Dying (S-2) | 3 hours**

This course is cross-listed with FMST 250, FMST 450, SOCI 250, SOCI 450, SOCW 250, and SOCW 450. A student may receive credit for this course from only one program—See SOCI 250 for course description. Lab fee 1 will be assessed for this course.

**PSYC 253 - Industrial/Organizational Psychology | 3 hours**

Prerequisite(s): PSYC 122 or PSYC 128—A study of human behavior in industries and organizations. Major theories, issues, research, and methods will be introduced. Emphasis is given to acquainting students with the possible applications of psychology to the fields of business and organizational management. (Fall)

**PSYC 295 - Directed Study | 1-3 hours**

Prerequisite(s): Approval of instructor—This course permits the student with adequate preparation to pursue independent study in specific areas in psychology. The area of study will appear on the transcript. Directed study arrangements are to be completed by the student in advance of registration after consulting with the adviser and following an application process. Procedures and guidelines are available from the school. May be repeated for credit.

**PSYC 297 - Research Design and Statistics I | 3 hours**

Prerequisite(s): PSYC 122 or PSYC 128; Completion of ENGL 102 with a minimum grade of C—This course provides an introduction to scientific inquiry in psychology and other social and behavioral sciences. Students are introduced to APA (American Psychological Association) style, descriptive statistics, and basic research design. Students are guided in understanding the role of statistics in research design and are introduced to computer-aided data analysis using SPSS (Statistical Package for the Social Sciences). Two lectures and one two-hour laboratory each week. Lab fee 3 will be assessed for this course. (Fall)

**PSYC 315 - Abnormal Psychology | 3 hours**

Prerequisite(s): PSYC 122 or PSYC 128; Admission to Psychology or permission of instructor—A study of the etiology of pathological behavior and the factors relating to good adjustment and mental health. Attention is paid to several continuing or recent controversial issues in the field of psychopathology.

**PSYC 326 - Physiological Psychology | 3 hours**

Prerequisite(s): PSYC 122; Admission to Psychology or permission of instructor—A study of the brain: neuroanatomy, neurophysiology, and neural control of behavior. The biochemical substrates of behavior such as memory, sleep, emotion, learning, and motivation are examined. Two lectures and one laboratory each week. Lab fee 3 will be assessed for this course. (Winter, even years)

**PSYC 336 - Language Acquisition and Development | 2 hours**

This course will explore the process of language acquisition through its developmental stages (from infancy through adulthood). A review of literature will expand on visual, auditory and information processing disorders as well as the major theories of language acquisition and development. Five (5) hours of field experience observations are required.

**PSYC 346 - Introduction to Personality Theories | 3 hours**

Prerequisite(s): PSYC 122, PSYC 128; Admission to Psychology or permission of instructor—This course is an exploration of the major paradigms of personality theory from a Christian perspective. Psychoanalysis, behaviorism, humanism, existentialism, and others will be covered. It will focus on the modern theorists, including White, Rogers, Skinner, May, Bandura, Mischel, Wilson, and Barash. A study of human motivation and an exploration of individual personality perspective will provide useful personal information. (Winter)

**PSYC 349 - Aging and Society (S-2) (W) (SERV-2) | 3 hours**

This course is cross-listed with FMST 349, SOCI 349, and SOCW 349. A student may receive credit for this course from only one program—See FMST 349 for course description.

**PSYC 357 - Psychological Testing | 3 hours**

Prerequisite(s): PSYC 122 and PSYC 297 or MATH 215 or BUAD 221; Admission to Psychology or permission of instructor—This course is designed to introduce the student to the principles of testing, particularly as it relates to the practice of psychology. Specifically, the course examines the purpose of individual assessment of ability, aptitude, achievement, interest, and personality. Theory and basic concepts underlying the individually administered and group tests will be evaluated. Non-standardized tests and other techniques for psychological assessment will also be addressed. (Fall)

**PSYC 377 - Fundamentals of Counseling | 3 hours**

Prerequisite(s): Admission to Psychology or permission of instructor. Recommended: PSYC 315 or PSYC 346—This is an introduction to the major theories and practices of individual counseling. The dynamics of the helping relationship are analyzed. Theory and practice will be integrated. (Fall)

**PSYC 384 - Experimental Psychology | 3 hours**

Prerequisite(s): PSYC 122, PSYC 297; Admission to Psychology or permission of instructor—This course focuses on experimentation in the field of psychology. Specifically, students will be introduced to conducting simple experiments in such areas as learning, cognition, sensation, perception, and social psychology. (Fall, odd years)

**PSYC 387 - Comparative Psychology | 3 hours**

This course is cross-listed with BIOL 387. A student may receive credit for this course from only one program—See BIOL 387 for course description.

**PSYC 390 - Health Psychology | 3 hours**

Prerequisite(s): PSYC 122; Admission to Psychology or permission of instructor—A study of the principles of human behavior in understanding how the mind and body interact in health and disease. The course examines topics such as alcohol, other drugs and behavior, health promotion, psychosomatic illness, stress and coping, pain management, and health damaging behaviors. (Winter, odd years)

**PSYC 405 - Sexual Abuse Awareness and Prevention | 1-3 hours**

This course is cross-listed with FMST 405, NRSRG 405, and SOCW 405. A student may receive credit for this course from only one program—See FMST 405 for course description.

**PSYC 416 - History and Systems of Psychology (W) | 3 hours**

Prerequisite(s): PSYC 122 and senior standing for BA/BS in Psychology; Completion of ENGL 102 with a minimum grade of C. Admission to Psychology or permission of instructor—This course examines the beginnings of modern psychology from its origins in theology, philosophy, and the natural sciences to its contemporary schools, systems, and theories. This is the capstone course of the psychology undergraduate program. In addition, completion of the Major Field Test (MFT) in Psychology is a required component of this class. Lab fee 4 will be assessed for this course. (Winter)

**PSYC 422 - Issues in Adolescence | 3 hours**

Prerequisite(s): PSYC 122, PSYC 128 or EDUC 220; Admission to Psychology or permission of instructor—This course is cross-listed with EDUC 423. A student may receive credit for this course from only one program—The determinants and implications of behavioral characteristics and developmental patterns during adolescence will be studied. Content will include the psychological and social dynamics underlying the crises and issues specific to adolescents in modern society. (Fall, even years)

**PSYC 455 - Psychology of Emerging Adulthood | 3 hours**

Prerequisite(s): Admission to Psychology or permission of instructor—The determinants and implications of behavioral characteristics and developmental patterns during emerging adulthood will be studied. Content will include the psychological and social dynamics underlying the crises and developmental issues specific to emerging adulthood in modern society. (Fall, odd years)

**PSYC 460 - Group Processes | 3 hours**

Prerequisite(s): PSYC 377; Admission to Psychology or permission of instructor—This course will offer the advanced student the opportunity to explore through practice the various roles of group dynamics. The experience will provide skill development for the management of small groups in therapy, school, business, and church settings. (Winter, odd years)

**PSYC 465 - Topics in Psychology | 1-3 hours**

Prerequisite(s): Psychology major with junior or senior standing; Admission to Psychology or permission of instructor—Selected topics in psychology as chosen from such areas as: psychology of religion,

ethics, individual differences, psychology of women, sensation and perception, etc. This course may be repeated for credit with an appropriate change in topics.

**PSYC 479 - Family Counseling | 3 hours**

Prerequisite(s): PSYC 377; Admission to Psychology or permission of instructor—An advanced counseling techniques course including an emphasis on family and individual counseling and how to direct persons to make changes towards more effective interpersonal relationships. (Fall, even years)

**PSYC 490 - Psychology Seminar | 1 hour**

Prerequisite(s): Completion of ENGL 102 with a minimum grade of C. Psychology major or minor with senior standing. Admission to Psychology or permission of instructor—This course is designed to provide students with an opportunity to think critically about their career choice in the field of psychology. The seminar provides guidance for those planning on applying to graduate programs. The course walks students through the phases of the application process including, but not limited to, establishing a specific career path, identifying admission requirements, searching for accredited graduate programs in their chosen specializations, writing a sample admission essay, and completing an application to at least one graduate school of their choice. (Fall)

**PSYC 491 - Psychology Practicum | 1-3 hours**

Prerequisite(s): Psychology major with junior or senior standing. Admission to Psychology and approval of the instructor—Supervised volunteer/work experience in related fields of psychology. At least fifty (50) clock hours of work experience are required for each semester hour of credit. This class should be taken no later than fall of the senior year. May be repeated for credit for up to 3 hours. Grades will be assigned on an A, B, or F basis.

**PSYC 495 - Directed Study | 1-3 hours**

Prerequisite(s): Admission to Psychology or permission of instructor—See PSYC 295 for course description.

**PSYC 498 - Research Design and Statistics II (W) | 4 hours**

Prerequisite(s): PSYC 122, PSYC 297 or MATH 215, either with a minimum grade of C-. Completion of ENGL 102 with a minimum grade of C. Admission to Psychology or permission of instructor—This course is the second of the two-part series, Research Design and Statistics. Emphasis is placed on 'doing research' in psychology. The focus is on research methods, inferential statistics, and non-parametric methods of data analysis. Each student is required to complete a proposal and an independent research project. Data analysis techniques utilize SPSS (Statistical Package for the Social Sciences). Two lectures and one two-hour laboratory each week. Lab fee 3 will be assessed for this course. (Winter)

## Recreation

**RECR 210 - Group Fitness Instructor | 2 hours**

Prerequisite(s): PEAC 225—This course is cross-listed with PETH 210. A student may receive credit for this course from only one program—See PETH 210 for course description. Lab fee 10 will be assessed for this course.

**RECR 254 - Lifeguarding (P-1b) | 1 hour**

Prerequisite(s): PEAC 125—This course is cross-listed with PEAC 254. A student may receive credit for this course from only one program—See PEAC 254 for course description. Lab fee 4 will be assessed for this course.

**RECR 265 - Topics in Recreation | 1-3 hours**

Topics selected from areas of recreation not covered in other courses. This course may be repeated for credit.

**RECR 268 - Officiating Sports Analysis | 2 hours**

An introduction to administration of and participation in the organization of officiating in team and individual recreational activities.

**RECR 269 - Officiating Sports Analysis | 2 hours**

An introduction to administration of and participation in the organization of officiating in team and individual recreational activities.

**RECR 325 - Personal Trainer | 2 hours**

This course is cross-listed with PETH 325. A student may receive credit for this course from only one program—See PETH 325 for course description. Lab fee 10 will be assessed for this course.

**RECR 491 - Recreation Practicum | 1-3 hours**

The student will spend a minimum of 100 credit hours in observing and working with a recreation facility. Appropriate sights will be located in cooperation with your academic adviser.

**Biblical Studies**

**RELB 125 - Life and Teachings of Jesus (R-1) | 3 hours**

A study of the life, ministry, and teachings of Jesus with special emphasis on His teachings as they apply to the personal, social, and religious problems of the individual. (Fall, Winter, Summer)

**RELB 175 - Acts of the Apostles (R-3) (R-4) | 3 hours**

A study of the development of the church during apostolic times, including an introduction to the characters, issues, and events that shaped the earliest Christian communities and the theological development of the gospel by the early church.

**RELB 225 - Prophetic Studies (R-3) (R-4) | 3 hours**

This course is cross-listed with RELB 325. A student may receive credit for this course from only one program—A study of selected historical and prophetic portions of Daniel and Revelation and their relationship to the mission and message of the Seventh-day Adventist Church.

**RELB 237 - Archaeology and the Old Testament (R-3) (R-4) | 3 hours**

A study of cultures, customs, languages, and religions that impact the understanding of the Old Testament based on archaeological and other ancient material culture which, interpreted from the viewpoint of the Bible, emphasizes its authenticity. (Fall)

**RELB 245 - Old Testament Studies I (R-3) (R-4) | 3 hours**

An introduction to the Pentateuch and Writings, two major divisions of the Old Testament. Attention will be given to the structure, themes, theology, historical setting, and significance of this literature in Christian interpretation. Various approaches to the study of the Old Testament will be surveyed. (Fall)

**RELB 246 - Old Testament Studies II (R-3) (R-4) | 3 hours**

An introduction to the Prophets, a third major division of the Old Testament. Attention will be given to the structure, themes, theology, historical setting, and significance of this literature in Christian interpretation. (Winter)

**RELB 247 - Archaeology and the New Testament (R-3) (R-4) | 3 hours**

A study of the cultures, customs, languages, and religions that impact the understanding of the New Testament based on archaeological and other ancient material culture which, interpreted from the viewpoint of the Bible, emphasizes its authenticity. (Winter)

**RELB 255 - Archaeological Fieldwork (R-4) | 1-6 hours**

In conjunction with the archaeological expeditions and sponsored by Southern Adventist University, qualified students obtain practical experience and training in archaeological fieldwork by assisting in the supervising of excavation drawings, registering, reading of pottery, and related work. Fees are assessed to cover the expenses of fieldwork and room and board. (Summer)

**RELB 260 - Sexuality and Scripture (R-3) (R-4) | 3 hours**

An introduction course exploring the theology of sexuality in both the Old and New Testaments. Sexuality and Scripture is a study of the principles of Christian sexuality in a biblical context and from a counter-cultural perspective. Its intent is to teach Christian through on the subject and challenge the sexual thought and values of contemporary society. It includes the study of sexual ideologies and practices both religious and secular, the assumptions behind them, and results impacting physical, mental, and spiritual health and happiness.

**RELB 265 - Topics in Biblical Studies | 1-3 hours**

This course is designed to provide an exposure to a wide range of religious studies dealing with issues encountered in biblical studies. The content will change as needed, so the course may be repeated once for credit. Open to all students. (As needed)

**RELB 268 - Sermon on the Mount (R-3) | 3 hours**

This course is a study of the Sermon on the Mount as recorded in the Gospels of Matthew and Luke.

**RELB 295 - Directed Study | 1-3 hours**

This course is limited primarily to School of Religion majors and must be approved by the dean of the School of Religion. Occasionally the course may be conducted as a seminar and published in the schedule of classes. This course may be repeated for credit. (As needed)

**RELB 325 - Prophetic Studies (R-3) (R-4) | 3 hours**

This course is cross-listed with RELB 225. A student may receive credit for this course from only one program—See RELB 225 for course description.

**RELB 340 - Middle East Study Tour (R-4) | 1-3 hours**

Sponsored by the School of Religion, the Middle East Study Tour focuses on the archaeological, historical, and geographical study of the region, with an emphasis on the comparative study of cultures, locations, and events as they relate to the Bible. Fees are assessed to cover the expenses of the tour. (Summer)

**RELB 425 - Studies in Daniel (R-3) (R-4) (W) | 3 hours**

A study of selected historical and prophetic portions of Daniel to discover their meaning and relevance for today. (Fall, Summer as needed)

**RELB 426 - Studies in Revelation (R-3) (R-4) | 3 hours**

A study of the prophecies and symbolism of Revelation with their historical fulfillments. Special attention will be given to discovering its special message for our day. (Winter, Summer as needed)

**RELB 435 - New Testament Studies I (R-3) (R-4) | 3 hours**

A brief introduction to and exegetical study of the General Letters of the New Testament which include Hebrews; James; 1 and 2 Peter; Jude; 1, 2, and 3 John. Includes a background survey of the book of Acts. (Fall)

**RELB 436 - New Testament Studies II (R-3) (R-4) | 3 hours**

A brief introduction to and exegetical study of the Pauline Letters of the New Testament which include 1 and 2 Thessalonians, 1 and 2 Corinthians, Galatians, Romans, Ephesians, Colossians, Philippians, Philemon, 1 and 2 Timothy. (Winter)

**RELB 455 - Archaeological Fieldwork (R-4) | 1-6 hours**

See RELB 255 for course description. Fees are assessed to cover the expenses of fieldwork and room and board.

**RELB 465 - Topics in Biblical Studies | 1-3 hours**

This course is designed to provide an exposure to a wide range of religious studies dealing with issues encountered in biblical studies. The content will change as needed, so the course may be repeated once for credit. Open to all students. (As needed)

**RELB 477 - Exodus, Egyptian Warfare, and Archaeology (R-3) (R-4) (W) | 3 hours**

A seminar course that explores the core events of the book of Exodus and its development as a major theme in the Old Testament in relation to Egyptian and Near Eastern historical texts and warfare tactics of the ancient world. Careful attention will be paid to the exegesis of the biblical texts and Egyptian documents before comparisons are made with cultural, political, and historical events in Egypt and Canaan from an archaeological perspective. The course will make heavy use of the primary source materials in the William G. Dever Research Library. (Fall or Winter as needed)

**RELB 479 - Biblical Imagery and the Archaeology of Near Eastern Images (R-3) (R-4) (W) | 3 hours**

A seminar course that explores the rich motifs of biblical imagery and the development of metaphors of God in the Old Testament in relation to Near Eastern artifacts, images, and seals of the ancient world. Careful attention will be paid to the exegesis of biblical texts before comparisons are made with cultural, political, and religio-historical developments in the ancient Near East from an archaeological perspective. The course will make heavy use of the primary source materials in the William G. Dever Research Library. (Fall or Winter as needed)

**RELB 481 - David, Solomon, and the Archaeology of State Formation (R-3) (R-4) (W) | 3 hours**

Prerequisite(s): A seminar course that explores the central role that David and Solomon played in the development of kingship and state formation in ancient Israel in relation to ancient Near Eastern and Hebrew historical texts and archaeological excavations in modern Israel. Careful attention will be paid to the exegesis of the biblical texts of Samuel and Kings before comparisons are made with cultural, political, and historical events in Israel and the ancient Near East from an archaeological perspective. The course will make heavy use of the primary source materials in the William G. Dever Research Library—(Fall or Winter as needed)

**RELB 483 - Sanctuary, Temple, and the Archaeology of Religion (R-3) (R-4) (W) | 3 hours**

A seminar course that explores the central role of the sanctuary and temple services and the development of religion and cult in ancient Israel in relation to ancient Near Eastern and Hebrew historical texts, iconography, and archaeological excavations in Egypt and the ancient Near East. Careful attention will be paid to the exegesis of the biblical texts before comparisons are made with cultural, political, and

historical events in Israel and the ancient Near East from an archaeological perspective. The course will make heavy use of the primary source materials in the William G. Dever Research Library. (Fall or Winter as needed)

**RELB 495 - Directed Study | 1-3 hours**

See RELB 295 for course description.

**RELB 497 - Archaeological Method and Theory (R-4) | 3 hours**

Prerequisite(s): RELB 237, RELB 247—This course provides a thorough background to archaeological method and theory for the advanced archaeology student, including a historical overview of archaeological inquiry, as well as the development of procedure, method, and theoretical perspectives in the discipline. There will be a focus on ceramic typology and interpretation of site reports in the southern Levant and the Aegean world. Open to archaeology majors and minors only. (Winter, even years)

## **Biblical Languages**

**RELL 181 - Biblical Hebrew I (I-3c) | 3 hours**

An introductory course in the grammar and vocabulary of Biblical Hebrew. The student will read and translate selected Old Testament passages in order to apply what is being learned. Laboratory work is required.

**RELL 182 - Biblical Hebrew II (I-3c) | 3 hours**

An introductory course in the grammar and vocabulary of Biblical Hebrew. The student will read and translate selected Old Testament passages in order to apply what is being learned. Laboratory work is required.

**RELL 191 - New Testament Greek I (I-3c) | 3 hours**

An introductory course in the grammar and vocabulary of New Testament Greek. The student will read and translate selected New Testament passages in order to apply what is being learned. Laboratory work is required.

**RELL 192 - New Testament Greek II (I-3c) | 3 hours**

An introductory course in the grammar and vocabulary of New Testament Greek. The student will read and translate selected New Testament passages in order to apply what is being learned. Laboratory work is required.

**RELL 221 - Introduction to Biblical Exegesis | 2 hours**

Prerequisite(s): RELL 181 or RELL 191—An introduction to the principles of biblical interpretation and their underlying presuppositions as well as their application to biblical exegesis, focusing on the various steps of the exegetical process. Passages of the Bible representing the various genres of the Old and New Testaments will be interpreted. (Winter)

**RELL 295 - Directed Study | 1-3 hours**

This course is limited primarily to School of Religion majors and must be approved by the dean of the School of Religion. Occasionally the course may be conducted as a seminar and published in the schedule of classes. This course may be repeated for credit. (As needed)

**RELL 330 - Intermediate Hebrew | 3 hours**

Prerequisite(s): RELL 181, RELL 182—An intermediate course in the grammar and vocabulary of biblical Hebrew with an emphasis on Hebrew syntax. Selected Old Testament passages will be translated and interpreted. The student will be introduced to word studies and grammatical text-analysis which form the basis for exegetical work with the biblical text. (Fall)

**RELL 331 - Intermediate Greek | 3 hours**

Prerequisite(s): RELL 191, RELL 192—An intermediate course in the grammar and vocabulary of New Testament Greek with an emphasis on Greek syntax. Selected New Testament passages will be translated and interpreted. The student will be briefly introduced to the task of exegesis as it pertains to the effective proclamation of the Scriptures. (Fall)

**RELL 465 - Topics in Biblical Languages | 1-3 hours**

This course is designed to provide an exposure to a wide range of religious studies dealing with issues encountered in biblical languages and exegesis. The content will change as needed, so the course may be repeated once for credit. Open to all students. (As needed)

**RELL 495 - Directed Study | 1-3 hours**

See RELL 295 for course description.



## Professional Training

### **REL 150 - Introduction to Ministry | 2 hours**

Prerequisite(s): Students whose major does not require this course must obtain permission from instructor and School dean—An introduction to the basics of ministry, focusing on issues such as the call to pastoral or teaching ministry, Christ-centered living, personal spirituality, ethical behavior, relationships with others, concern for the lost, time management, and theological study. This course seeks to develop personal morality, spiritual growth, and practical life skills in ministers and teachers in training. Lab fee 8 will be assessed for the IDAK career evaluation.

### **REL 240 - World Missions (R-4) | 3 hours**

An introduction to world missions and mission strategies. This course introduces a theology of world mission, the history of missions, various philosophies of mission including the Seventh-day Adventist philosophy and strategy of missions and the strategic implementation of mission in different cultural settings. Major religious, philosophical and cultural traditions will be examined for the purpose of enhancing Christian outreach and cross-cultural evangelism. Upper division students are expected to do additional research and writing besides the other class requirements. (Winter)

### **REL 251 - Introduction to Youth Ministry (R-4) | 3 hours**

This course will explore the biblical basis for a specialized ministry to children, youth, and young adults. The students will become acquainted with current research, contemporary approaches, and available resources to enhance ministry to youth. Practical experience in area churches will be required.

### **REL 252 - Intermediate Youth Ministry (R-4) | 3 hours**

This course will focus on principles and strategies for specialized ministry among adolescents in the local church. Practical experience in area churches will be required.

### **REL 257 - Museum Education | 1 hour**

A study of the role, function, and outreach potential of the Lynn H. Wood Archaeological Museum in the community, with an emphasis on docent training and procedures, interpretive methods, and general principles of museum education. (Fall)

### **REL 264 - Christian Witnessing (R-4) | 3 hours**

This course will focus on Christ's model of reaching people and how this approach can be integrated in one's spiritual life and implemented with interpersonal relationships and the sharing of the gospel. (Winter)

### **REL 265 - Topics in Professional Training | 1-3 hours**

This course is designed to provide an exposure to a wide range of religious studies dealing with issues encountered in professional training. The content will change as needed, so the course may be repeated once for credit. Open to all students. (As needed)

### **REL 266 - Evangelism Seminar | (0-1 hour)**

In this seminar course, students will gain exposure to key evangelism topics and learn from field-experts how to do evangelism in a diversity of contexts. Emphasis will be given to the cycle of evangelism and its application. Areas covered include health evangelism, urban evangelism, literature evangelism, foreign missions, education, small groups, and public evangelism.

### **REL 267 - Introduction to Christian Leadership | (2 hours)**

This course introduces principles of Christian leadership and how they can be applied to life and ministry. Using the Bible, Spirit of Prophecy and contemporary leadership writings, students will develop their own personal framework for successful leadership. The strengths and weaknesses of various approaches are compared. Students are required to obtain hands-on leadership experience during the semester outside of the class as part of the course requirements.

### **REL 270 - Interpersonal Ministry | 2 hours**

Prerequisite(s): Three hours of religion courses—Students whose major does not require this course must obtain permission from instructor and School dean. The development of listening skills and interpersonal communication in pastoral visitation, with special emphasis on revitalizing inactive members. Laboratory work in area churches will be required.

### **REL 291 - Practicum (SERV-2) | 1-3 hours**

Supervised practicum in various forms of ministry as individually designed for each student. The program and the supervisor must be approved by the School of Religion prior to registration. These programs will involve a minimum of 100 hours of instruction and activity for each hour of credit. This course may be applied to a Religion minor but is not a substitute for REL 466 - Public Evangelism, or other General Education requirements. (Pass/Fail).

**RELP 295 - Directed Study | 1-3 hours**

This course is limited to School of Religion majors and must be approved by the School dean. Occasionally the course may be conducted as a seminar and published in the schedule of classes. This course may be repeated for credit. (As needed)

**RELP 308 - Mission Trip (SERV-2) | 0-1 hour**

This course is cross-listed with NRSRG 308 and SOCW 308. A student may receive credit for this course from only one program—This elective class gives the opportunity for mission experience in a developing country for the purpose of meeting physical, emotional, and spiritual needs. Opportunities are available to work collaboratively with students of other disciplines in intraprofessional outreach utilizing the knowledge and skills of each respective major. A reflection paper identifying both group and discipline-specific opportunities and contributions made on the mission trip will be turned in at the conclusion of the trip and will be assessed by the professor. Lab fee 26 will be assessed for this course.

**RELP 321 - Introduction to Biblical Preaching | 2 hours**

Prerequisite(s): COMM 135; RELL 221; Junior status or permission of the instructor—This introductory course examines the foundations for effective biblical preaching. Attention will be given to the call and preparation of the preacher, principles of biblical hermeneutics, the elements of sermon formulation, and principles of sermon delivery. A topical, biographical, or narrative sermon will be preached and analyzed in a peer-review setting. (Fall)

**RELP 322 - Intermediate Biblical Preaching | 2 hours**

Prerequisite(s): RELP 321; Junior status or permission of the instructor—This course focuses on the preparation and delivery of expository sermons. Attention will be given to the discovery of the exegetical idea of the text, the formulation of the homiletical idea, and how to preach with conviction. Expository sermons will be preached and analyzed in a peer-review setting. (Winter)

**RELP 329 - Missions and Health (SERV-2) | 2 hours**

This course is cross-listed with NRSRG 329 and SOCW 329. A student may receive credit for this course from only one program—See NRSRG 329 for course description.

**RELP 340 - World Missions (R-4) | 3 hours**

See RELP 240 for course description.

**RELP 354 - Introduction to Pastoral Counseling | 3 hours**

This course is an introduction to pastoral redemptive care. Visitation to correctional and rehabilitation centers, hospitals, and nursing homes will be required. This course is not designed as an introduction to professional counseling.

**RELP 361 - Personal Evangelism I (R-4) (SERV-2) | 2 hours**

The course covers the principles and practice of one-to-one evangelism, focusing on leading people to Christ, giving effective Bible studies, friendship evangelism, ministering to young people, and working in local church outreach endeavors. Students must take this course immediately preceding RELP 362 - Personal Evangelism II (SERV-2). (Fall)

**RELP 362 - Personal Evangelism II (SERV-2) | 2 hours**

Prerequisite(s): RELP 361—This course builds on the practical ministry skills introduced in Personal Evangelism I. In addition, urban evangelism, small groups outreach, and answering Bible objections will be covered. Students whose major or minor requires RELP 466 - Public Evangelism, must take the course immediately before Public Evangelism. (Winter)

**RELP 391 - Practicum (SERV-2) | 1-3 hours**

See RELP 291 for course description.

**RELP 401 - Fundamentals of Biblical Preaching | 3 hours**

Prerequisite(s): Permission of the School of Religion—A basic homiletics course focusing on the preparation and delivery of expository sermons. The student will learn and implement a ten-step method for sermon preparation and will preach it in a peer-review setting. The course is intended for students with no academic credit in preaching. (Summer as needed)

**RELP 405 - Evangelistic Preaching (R-4) | 1 hour**

Prerequisite(s): COMM 135 and permission of instructor—This course concentrates on the development and delivery of distinctively Adventist messages, with emphasis on soul-winning decisions and the use of multi-media. This course is available to those who will take RELP 466 - Public Evangelism in the following summer. (Winter)

**RELP 423 - Advanced Biblical Preaching | 2 hours**

Prerequisite(s): RELP 321, RELP 322—This course explores further methods of biblical preaching, such as the narrative plot and the inductive sermon, all the while challenging the student to a complete reliance upon Word and Spirit. Preaching is set for specific needs, situations, and the development of a sermon series. Sermons are preached and analyzed in a peer-review setting. (Fall)

**RELP 435 - Levantine Ceramic Typology | 1 hour**

A study of the ceramic typology of the Levant from the Chalcolithic to the Hellenistic periods with an emphasis on technology, form, and function.

**RELP 450 - Church Ministry I | 3 hours**

Prerequisite(s): RELP 150, RELP 362, or permission of the instructor and School dean. Senior status only—An introduction to church ministry, this course explores a biblical theology of church ministry, clergy, and laity roles and relationships, church administration, and the practice of some specific ministries in the local setting. Laboratory work in area churches is required. (Fall)

**RELP 452 - Church Ministry II | 3 hours**

Prerequisite(s): RELP 150, RELP 362, or permission of the instructor and School dean. Senior status only—In this course, consideration is given to the personal as well as the professional life of the pastor, such as spiritual leadership, life management, worship ministry, priestly functions (baptisms, weddings, and funerals), denominational policy, church growth, and the empowerment of the Holy Spirit for ministry. The course includes the theology major exit exam. Laboratory work in area churches is required. (Winter)

**RELP 465 - Topics in Professional Training | 1-3 hours**

In this introductory course, Christ's model of personal evangelism will be emphasized, and attention will be given to the principles and practice of one-to-one evangelism with people of Christian, secular, and non-Christian backgrounds. The presentation of the gospel and giving of Bible studies is modeled in class, and laboratory experience is required of the student. (As needed)

**RELP 466 - Public Evangelism | 3 hours**

Prerequisite(s): RELP 362, RELP 405 and acceptance as a ministerial trainee—Principles employed in preparing and conducting public evangelistic meetings are explored and experienced in connection with the Field School of Evangelism. The student learns how to plan and hold an evangelistic series, as well as visit with evangelistic interests. Consent from the School of Religion must be obtained before enrollment.

**RELP 467 - Health Evangelism (R-4) (SERV-2) | 2-3 hours**

This course is cross-listed with NRSG 467. A student may receive credit for this course from only one program—A study of the concepts and methods of creating witnessing opportunities through taking advantage of the current interest in preventive health practices and lifestyle changes. The objective of these concepts and methods is to obtain decisions for a more abundant way of life and to lead men and women to Christ. The course also will provide future church leaders with practical ways to utilize the talents of members in health evangelism. Laboratory work in area churches and/or community settings is required. A 2-hour class will not complete the R general education area of 12 hours.

**RELP 495 - Directed Study | 1-3 hours**

See RELP 295 for course description.

**Religion and Theology****RELT 138 - Adventist Heritage (R-2) | 3 hours**

A study of the Second Advent Awakening in the nineteenth century and the subsequent development of the Seventh-day Adventist Church. Special emphasis will be placed on the contributory role in the church of the spiritual gift of prophecy through the life and ministry of Ellen G. White. (Fall, Winter, Summer)

**RELT 139 - Adventist Heritage Tour (R-4) | 1 hour**

This tour visits sites of major importance to the history of the Millerite movement and the founding of the Seventh-day Adventist Church. It also considers sites of significance to the context in which the Adventist church arose. Course requirements include going on the tour and keeping a journal containing written reflections on various tour sites. Lab fee 16 will be assessed for this course. (Fall Break)

**RELT 176 - Christian Spirituality II (R-4) | 1 hour**

Prerequisite(s): RELT 177—A continued study of the classic spiritual disciplines of the Christian faith, with an emphasis on Scripture as a dynamic in personal spiritual development. This course will focus on contemplative reading of Scripture, journaling, meditation on Scripture, and Scripture memorization. (Winter)

**RELT 177 - Christian Spirituality (R-1) | 3 hours**

This course provides a basic introduction to Christian spirituality and spiritual growth. Using Christ as a model, key spiritual disciplines, such as prayer and Bible study, will be explored and applied as ways to enrich personal spirituality. Aspects of spiritual growth such as understanding grace, obedience, faith and dependence on Christ will be explored from a biblical and practical perspective.

**RELT 201 - Biblical Principles for Daily Living (R-4) | 3 hours**

A study of the biblical principles for restoring humankind to the image of God holistically, in the physical, intellectual, emotional, social, and spiritual dimensions. The principles studied cover many aspects of Christian living, including social relationships, lifestyle choices, ethical issues, stewardship, health, and spiritual growth. Students are encouraged to explore Scripture to discover these principles for themselves and learn how to apply them in their lives.

**RELT 225 - Last-Day Events (R-2) | 3 hours**

A biblical, theological, and historical study of eschatology rooted in its Christ-centered focus. It considers the unique Seventh-day Adventist contribution compared to that of leading scholars, both in the past and present. Also it examines, among other movements, the New Age Movement and Dispensationalism and focuses on how to be ready for the end event.

**RELT 255 - Christian Beliefs (R-2) | 3 hours**

A study of Adventist doctrines in a Christ-centered context. This course will involve a study of the major teachings, with a view to enhancing the student's understanding and ability to provide biblical support for his/her faith. (Fall, Winter, Summer)

**RELT 264 - Topics in Theological Studies | 1-3 hours**

This course is designed to provide an exposure to a wide range of religious studies dealing with issues encountered in theology. The content will change as needed, so the course may be repeated once for credit. Open to all students. (As needed)

**RELT 295 - Directed Study | 1-3 hours**

This course is limited primarily to School of Religion majors and must be approved by the dean of the School of Religion. Occasionally the course may be conducted as a seminar and published in the schedule of classes. This course may be repeated for credit. (As needed)

**RELT 317 - Issues in Physical Science and Religion (R-4) | 3 hours**

This course is cross-listed with PHYS 317, Physics Department. A student may receive credit for this course from only one program—See PHYS 317 for course description. One of the "Issues" courses can apply to General Education natural science requirement for majors, and to Religion for non-majors.

**RELT 358 - World Religions | 3 hours**

Prerequisite(s): Junior or senior status only—This course is cross-listed with RELT 458. A student may receive credit for this course from only one program—A study of several major non-Christian religions, including a survey of the history and the distinctive characteristics of each. This course will also compare and contrast these religions, consider areas of commonality between them and biblical Christianity, and provide insights as to how to share Christianity with practitioners of these religions. This course requires readings from sacred texts and relevant literature in the field. (Fall, Winter, Summer as needed)

**RELT 373 - Christian Ethics (R-4) | 3 hours**

A foundation course in moral decision making in the fields of bio-ethics, social ethics, and personal ethics. The objective is to discover timeless norms by which to make basic ethical decisions across the professional spectrum. These norms are then applied to issues relevant to the student. Limited to students required to take Ethics for their program or students with Junior/Senior class standing.

**RELT 421 - Issues in Science and Society (W) (R-4) | 3 hours**

This course is cross-listed with BIOL 421, Biology Department. A student may receive credit for this course from only one program—See BIOL 421 for course description. One of the "Issues" courses can apply to General Education natural science requirement for majors, and to Religion for non-majors.

**RELT 439 - Prophetic Ministry of Ellen G. White (R-4) | 2 hours**

Prerequisite(s): RELT 138; senior status; permission of instructor and school dean for non-majors—Designed for majors in Theology, Pastoral Care, and Religious Education, this is a course on the life, and in particular, the prophetic ministry of Ellen G. White, one of the founders of the Seventh-day Adventist Church. Topics will include a biblical study of the gift of prophecy, an understanding of the process of revelation and inspiration, and conflict issues often faced by pastors, chaplains, and school teachers. (Winter)

**RELT 458 - World Religions (W) (R-4) | 3 hours**

Prerequisite(s): Junior or senior status only—This course is cross-listed with RELT 358. A student may receive credit for this course from only one program—A study of several major non-Christian religions, including a survey of the history and the distinctive characteristics of each. This course will also compare and contrast these religions, consider areas of commonality between them and biblical Christianity, and provide insights as to how to share Christianity with practitioners of these religions. This course requires research and writing of a major paper. (Fall, Winter, Summer as needed)

**RELT 465 - Topics in Theological Studies | 1-3 hours**

This course is designed to provide an exposure to a wide range of religious studies dealing with issues encountered in theology. Open to all students. The content will change as needed, so the course may be repeated once for credit. (As needed)

**RELT 467 - Christian Philosophy and Worldviews (R-4) (W) | 3 hours**

A study of philosophical thinking as applied to understanding worldviews. Attention will be given to ancient philosophical systems and their influence on worldviews today. The student will also study current worldviews of Christian theism, deism, naturalism, nihilism, existentialism, Eastern Pantheistic monism, New Age philosophy, and postmodernism. This worldview understanding will be applied in case studies of contemporary movies. The criteria for evaluating all worldviews will be the Christian worldview in the context of the Adventist understanding of the great controversy.

**RELT 484 - Christian Theology I (R-4) | 3 hours**

Prerequisite(s): Junior or senior status only—An in-depth study of the 28 Seventh-day Adventist Fundamental Beliefs to equip the student to know the doctrines of the church from Scripture and to present them to others. (Fall)

**RELT 485 - Christian Theology II (W) (R-4) | 3 hours**

Prerequisite(s): RELT 484—This course examines major theological issues, such as christology, pneumatology, anthropology, soteriology, ecclesiology, and eschatology to strengthen confidence in Scripture and to equip the student to preach with certainty. (Winter)

**RELT 495 - Directed Study | 1-3 hours**

See RELT 295 for course description.

**Russian****RUSS 101 - Elementary Russian I (I-3c) | 3 hours**

This course offers students an introduction to the Russian language and provides a cultural adventure as well. The course develops listening and reading strategies with emphasis on oral and written forms of communication. Lab work required. Lab fee 3 will be assessed for this course.

**RUSS 102 - Elementary Russian II (I-3c) | 3 hours**

Prerequisite(s): RUSS 101 or approval of the department—This course offers students an introduction to the Russian language and provides a cultural adventure as well. The course continues developing listening and reading strategies with emphasis on oral and written forms of communication. Lab work required. Lab fee 3 will be assessed for this course.

**RUSS 207 - Intermediate Russian I (I-3c) | 3 hours**

Prerequisite(s): RUSS 102 or approval of the department—This course emphasizes intermediate grammar, intensive reading of moderate difficult Russian language texts, and oral and written exercises. Lab fee 3 will be assessed for this course.

**RUSS 208 - Intermediate Russian II (I-3c) | 3 hours**

Prerequisite(s): RUSS 207 or approval of the department—This course continues an emphasizes on intermediate grammar, intensive reading of moderate difficult Russian language texts, and oral and written exercises. Lab fee 3 will be assessed for this course.

**Sociology****SOCI 125 - Introduction to Sociology (S-2) | 3 hours**

An objective approach to the analysis and understanding of the social world. Consideration is given to the dynamic nature of American society and social institutions. Explores topics such as social change, culture, social structure, and the sociological imagination. (Fall, Winter, Summer)

**SOCI 150 - Cultural Anthropology (I-3b) (S-2) | 3 hours**

This course is cross-listed with FMST 150 and SOCW 150. A student may receive credit for this course from only one program—A study of culture and cultural variation. The contemporary beliefs, values,

institutions, and material dimensions of people in North America are contrasted with those of people living in other regions of the world today and in the past. (Fall)

**SOCI 224 - Social Psychology (S-2) | 3 hours**

This course is cross-listed with PSYC 224. A student may receive credit for this course from only one program—See PSYC 224 for course description.

**SOCI 230 - Multicultural Relations (I-3b) | 3 hours**

This course is cross-listed with FMST 230, SOCW 230, and PSYC 231. A student may receive credit for this course from only one program—A study of interactional patterns among diverse human groups. Consideration is given to the theoretical bases of inter-group relations and to class activities which promote awareness and understanding. Lab fee 1 will be assessed for this course. (Winter)

**SOCI 233 - Human Sexuality (S-2) | 3 hours**

This course is cross-listed with FMST 233, SOCW 233, and PSYC 233. A student may receive credit for this course from only one program—See FMST 233 for course description.

**SOCI 250 - Death and Dying (S-2) | 3 hours**

This course is cross-listed with FMST 250, FMST 450, SOCI 450, SOCW 250, SOCW 450, and PSYC 250. A student may receive credit for this course from only one program—This course offers a unique and important perspective about cultural differences in death and dying. Personal attitudes and beliefs related to loss, dying, death, and bereavement will be explored. Cultural beliefs, rituals, ethnic groups are examined. Students enrolling for upper division credit will be required to write an application paper beyond the course requirements. Lab fee 1 will be assessed for this course. (Winter)

**SOCI 265 - Topics in Sociology | 1-3 hours**

Study of special topics pertinent to the field of sociology. Content will vary among various topics, based on the interests or needs of students and the department. This course may be repeated for credit.

**SOCI 294 - International Study Tour | 3-6 hours**

This course is cross-listed with SOCW 294, SOCI 494, and SOCW 494. A student may receive credit for this course from only one program—The School of Social Work sponsors a study tour of Europe every other summer. The tour focuses on a comparison of cultures, historical and current issues, and social policies in order to facilitate a better understanding of diverse people (3-6 credits in one area). Lab fee 33 will be assessed for this course. Additional fees are assessed to cover expenses.

**SOCI 295 - Directed Study | 1-3 hours**

Prerequisite(s): SOCI 125 or permission of the instructor—Study of special topics pertinent to the area of sociology and family studies. Open to qualified students who want to follow a program in independent study. This course can be repeated for credit for a total of not more than three hours credit.

**SOCI 296 - U.S. Study Tour | 1-3 hours**

This course is cross-listed with FMST 296, FMST 496, SOCW 296, SOCW 496, and SOCI 496. A student may receive credit for this course from only one program—The School of Social Work sponsors a tour of New York City during Thanksgiving vacation. This trip focuses on ethnicity, social problems, urban change, and social agencies. Fees are assessed to cover the expenses of the tour. Lab fee 20 will be assessed for this course.

**SOCI 349 - Aging and Society (S-2) (W) (SERV-2) | 3 hours**

This course is cross-listed with FMST 349, PSYC 349, and SOCW 349. A student may receive credit for this course from only one program—See FMST 349 for course description. (Fall, Winter, Summer)

**SOCI 356 - Natives and Strangers (SOCI I-3a) (W) | 3 hours**

This course is cross-listed with HIST 356 and FMST 356. A student may receive credit for this course from only one program—See HIST 356 for course description.

**SOCI 360 - Family Life Education (S-2) | 3 hours**

This course is cross-listed with FMST 360 and SOCW 360. A student may receive credit for this course from only one program—See FMST 360 for course description. (Fall)

**SOCI 365 - Family Relations (S-2) | 3 hours**

This course is cross-listed with FMST 365 and SOCW 365. A student may receive credit for this course from only one program—See FMST 365 for course description.

**SOCI 450 - Death and Dying (S-2) | 3 hours**

This course is cross-listed with FMST 250, FMST 450, SOCI 250, SOCW 250, SOCW 450, and PSYC 250. A student may receive credit for this course from only one program—See SOCI 250 for course description. Lab fee 1 will be assessed for this course.

**SOCI 465 - Topics in Sociology | 1-3 hours**

See SOCI 265 for course description.

**SOCI 494 - International Study Tour | 3-6 hours**

This course is cross-listed with SOCI 294, SOCW 294, and SOCW 494. A student may receive credit for this course from only one program—See SOCI 294 for course description. Lab fee 33 will be assessed for this course. Additional fees are assessed to cover expenses.

**SOCI 495 - Directed Study | 1-3 hours**

Prerequisite(s): SOCI 125 or permission of the instructor—See SOCI 295 for course description.

**SOCI 496 - U.S. Study Tour | 1-3 hours**

This course is cross-listed with FMST 296, FMST 496, SOCI 296, SOCW 296, and SOCW 496. A student may receive credit for this course from only one program—See SOCI 296 for course description. Lab fee 20 will be assessed for this course.

**Social Work****SOCW 150 - Cultural Anthropology (I-3b) (S-2) | 3 hours**

This course is cross-listed with FMST 150 and SOCI 150. A student may receive credit for this course from only one program—See SOCI 150 for course description.

**SOCW 201 - Parenting (S-2) (SERV-2) | 3 hours**

This course is cross-listed with FMST 201. A student may receive credit for this course from only one program—See FMST 201 for course description.

**SOCW 211 - Introduction to Social Work | 3 hours**

This course provides an introduction to the knowledge, skills, and values necessary for generalist social work in contemporary society. Historical origins of the profession will be presented along with the unique experiences of diverse and at-risk populations affected by various social problems. Provides an overview of the range of public and private social services available for meeting these problems.

**SOCW 212 - Social Welfare as an Institution | 3 hours**

Prerequisite(s): SOCW 211 or consent of instructor—Social welfare systems are viewed from both historical and philosophical perspectives. This course provides an overview of federal, state, local, and faith-based organizations and their impact on social issues and systems. (Winter)

**SOCW 213 - Interviewing Skills | 3 hours**

This course is an introduction to principles and processes of interviewing and the development of a strong helping relationship. The course introduces the student to the knowledge, values, and practice skills of communication and relationship building.

**SOCW 225 - Marriage and the Family (S-2) | 3 hours**

This course is cross-listed with FMST 225. A student may receive credit for this course from only one program—See FMST 225 for course description.

**SOCW 230 - Multicultural Relations (I-3b) | 3 hours**

This course is cross-listed with FMST 230, SOCI 230, and PSYC 231. A student may receive credit for this course from only one program—See SOCI 230 for course description. Lab fee 1 will be assessed for this course.

**SOCW 233 - Human Sexuality (S-2) | 3 hours**

This course is cross-listed with FMST 233, SOCI 233, and PSYC 233. A student may receive credit for this course from only one program—See FMST 233 for course description.

**SOCW 250 - Death and Dying (S-2) | 3 hours**

This course is cross-listed with FMST 250, FMST 450, SOCI 250, SOCI 450, SOCW 450, and PSYC 250. A student may receive credit for this course from only one program—See SOCI 250 for course description. Lab fee 1 will be assessed for this course.

**SOCW 265 - Topics in Social Work | 1-3 hours**

Study of special topics pertinent to the field of social work. Content will vary among various topics based on the interests or needs of students and the department. This course may be repeated for credit.

**SOCW 294 - International Study Tour | 3-6 hours**

This course is cross-listed with SOCI 294, SOCI 494, and SOCW 494. A student may receive credit for this course from only one program—See SOCI 294 for course description. Lab fee 33 will be assessed for this course. Additional fees are assessed to cover expenses.

**SOCW 295 - Directed Study | 1-3 hours**

Prerequisite(s): SOCW 212—A study of special topics pertinent to the field of social work. Content will vary among such topics as child welfare, income maintenance, values and ethics of social work practice, etc. The selected topic is pursued for the entire semester. This course can be repeated for credit for a total of not more than three hours credit.

**SOCW 296 - U.S. Study Tour | 1-3 hours**

This course is cross-listed with FMST 296, FMST 496, SOCI 296, SOCI 496, and SOCW 496. A student may receive credit for this course from only one program—See SOCI 296 for course description. Lab fee 20 will be assessed for this course.

**SOCW 308 - Mission Trip (SERV-2) | 0-1 hour**

This course is cross-listed with NRSO 308 and RELP 308. A student may receive credit for this course from only one program—This elective class gives the opportunity for mission experience in a developing country for the purpose of meeting physical, emotional, and spiritual needs. Opportunities are available to work collaboratively with students of other disciplines in intraprofessional outreach utilizing the knowledge and skills of each respective major. A reflection paper identifying both group and discipline-specific opportunities and contributions made on the mission trip will be turned in at the conclusion of the trip and will be assessed by the professor. Lab fee 26 will be assessed for this course.

**SOCW 310 - Social Work Practice I (W) | 4 hours**

Prerequisite(s): Admission to the BSW Program; BIOL 103; SOCW 211, SOCW 212, SOCW 213—This course provides students with theoretical framework for generalist social work practice. Topics include engagement, assessment, intervention, evaluation, utilization of resources, social work values and ethics. Work with individuals and families, primarily the micro dimension of social work practice, is emphasized in this first semester of a three-semester practice sequence. Social Work practice courses can only be taken by non-social work majors if ALL prerequisites have been completed. (Fall)

**SOCW 311 - Human Behavior and the Social Environment I | 3 hours**

Prerequisite(s): Admission to the BSW Program; BIOL 103; SOCI 125; PSYC 122; SOCW 211—Corequisite(s): SOCW 310—First of a two-course HBSE sequence is a study on the reciprocal relationships between human behavior and the social environment from birth through young adulthood. Content will include empirically-based theories and knowledge that focus on the biological, sociological, cultural, psychological, and spiritual development of infants, children, adolescents, and young adults. The course will follow a life cycle model from a systems perspective. (Fall)

**SOCW 312 - Human Behavior and the Social Environment II | 3 hours**

Prerequisite(s): SOCW 311—Second of a two-course HBSE sequence is a study on the reciprocal relationships between human behavior and the social environment from middle to later adulthood. Content will include empirically-based theories and knowledge that focus on the biological, sociological, cultural, psychological and spiritual development of middle and later adults. The course will follow a life cycle model from a systems perspective. (Winter)

**SOCW 319 - Social Work Practice II (W) | 4 hours**

Prerequisite(s): SOCW 310—This course spans the mezzo and macro dimensions of social work practice. Building on skills introduced in Practice I, students will engage in practice with small groups, organizations, and communities. Lab fee 2 will be assessed for this course. (Winter)

**SOCW 326 - Child Welfare I | 3 hours**

This course provides an overview of the child welfare system in the United States from a generalist perspective. The history of the development of the continuum of child welfare services will be examined. Information on at-risk families, child abuse and neglect, foster care and adoption will be provided. The course will also review the social and organizational systems that are responsible for the delivery of child welfare services, and ways that social workers can influence these systems. Emphasis will be placed on increasing sensitivity to racial and cultural factors that affect the provision of child welfare services to various populations and the implications for practice. The organization and delivery of child welfare services in Tennessee will be discussed. (Fall)

**SOCW 327 - Child Welfare II | 3 hours**

Prerequisite(s): SOCW 326—This course is the second in a series of two courses offered as part of the TN Child Welfare Certification Program. It is designed to assist students in acquiring the practice skills to become culturally competent child welfare workers. The course will analyze the practices of various human/social service agencies that provide preventative, case management, out of home care, treatment, and rehabilitative services aimed at children, youth, and families. The roles of social services in the broad context of formal and informal systems that influence the life course of the child will be addressed. This course will prepare students to practice in the child welfare field by teaching them about the various contexts in which child welfare practice takes place and the skills and modalities that are used with children, youth, and families who are the focus of child welfare intervention. Particular



emphasis will be placed on the services provided by community based agencies, child welfare services and the juvenile justice system. Addition emphasis will be given to prepare the students to work the multicultural populations including consumers of different ages, races, cultures, socioeconomic status, and sexual orientations. The student will be prepared to meet ethical issues for social workers dealing with child welfare will be addressed with critical frameworks for resolving ethical dilemmas taught.

**SOCW 329 - Missions and Health (SERV-2) | 2 hours**

This course is cross-listed with NRSJ 329 and RELP 329. A student may receive credit for this course from only one program—See NRSJ 329 for course description.

**SOCW 349 - Aging and Society (S-2) (W) (SERV-2) | 3 hours**

This course is cross-listed with FMST 349, SOCI 349, and PSYC 349. A student may receive credit for this course from only one program—See FMST 349 for course description.

**SOCW 360 - Family Life Education (S-2) | 3 hours**

This course is cross-listed with FMST 360 and SOCI 360. A student may receive credit for this course from only one program—See FMST 360 for course description.

**SOCW 365 - Family Relations (S-2) | 3 hours**

This course is cross-listed with FMST 365 and SOCI 365. A student may receive credit for this course from only one program—See FMST 365 for course description.

**SOCW 391 - Junior Field Practicum | 1-3 hours**

Corequisite(s): SOCW 319—This course requires students to participate in an observational learning experience in a social service agency for 40 hours during the semester. Immersion in the agency environment will give students an opportunity to expand their understanding of how human needs are met in social service agencies. This experience prepares students for SOCW 428.

**SOCW 405 - Sexual Abuse Awareness and Prevention | 1-3 hours**

This course is cross-listed with FMST 405, NRSJ 405, and PSYC 405. A student may receive credit for this course from only one program—See FMST 405 for course description.

**SOCW 428 - Social Work Practicum I (SERV-2) | 3 hours**

Prerequisite(s): SOCW 319;—Corequisite(s): SOCW 497—This course provides opportunity for students to apply practice theory and to develop skills for generalist social work practice. Through participation in the social service delivery for generalist social work practice system, the student comprehends agency structures, functions, and programs. A minimum of 200 clock hours will be spent working in an agency setting. Social Work practicum courses can be taken ONLY by students accepted into the social work program. (Fall)

**SOCW 429 - Social Work Practicum II (SERV-2) | 3 hours**

Prerequisite(s): MATH 215; SOCW 428, SOCW 497—This course builds on the experiences of the first semester practicum and progresses to more difficult and varied tasks. Social Work practicum courses can be taken ONLY by students accepted into the social work program. (Winter)

**SOCW 433 - Social Work Practice III | 3 hours**

In this third of a three-part practice sequence, the primary emphasis is on working with communities and organizations, the macro-dimension of social work practice. Content includes identifying problems, needs, resources, and assets found in organizations and communities; collecting, assessing, and evaluating information; and planning for service delivery within organizations and communities. (Winter)

**SOCW 434 - Social Welfare Issues and Policies | 3 hours**

Prerequisite(s): MATH 215; SOCW 212, SOCW 312; PLSC 254 or ECON 213—A study of contemporary issues and policies that influence the delivery of social services. Course requirements include an analysis of organizational, local, state, national, and international issues in social welfare policy and social service delivery, lobbying efforts with local and national elected officials, and interactions with community residents and stakeholders. Students will understand and implement change for the best interest of stakeholders and advocate for policies consistent with social work values. A social welfare policy study tour to Washington, DC or the State Capitol is required to complete the course. Lab fee 15 will be assessed for this course. (Winter)

**SOCW 441 - Integrative Seminar I | 1 hour**

Prerequisite(s): SOCW 319, SOCW 497—Corequisite(s): SOCW 428, SOCW 497—Integrative Seminar I is the companion course to be taken in conjunction with the Practicum I field-based course. This course is designed to provide a forum for providing mutual support, discussing and completing departmental assignments, exploring on-going practice concerns in the field practicum, and creating an arena in which peer learning takes place. Thus, it provides a vital link between the theoretical knowledge, skills,

and values derived from the social work course work and the practice realities of the field practicum. (Fall)

**SOCW 442 - Integrative Seminar II | 1 hour**

Prerequisite(s): SOCW 441, SOCW 497—Corequisite(s): SOCW 429—Integrative Seminar II is the companion course to be taken in conjunction with the Practicum II field-based course. It builds on the base provided by Integrative Seminar I. It provides the same forum for mutual support, discussing and completing departmental assignments, exploring ongoing practice concerns from the field practicum, and creates an arena in which peer learning takes place. This course creates this same atmosphere, but explores the same areas in more depth. An additional major emphasis in this second course is social work record keeping and agency based research. (Winter)

**SOCW 450 - Death and Dying (S-2) | 3 hours**

This course is cross-listed with FMST 250, FMST 450, SOCI 250, SOCI 450, SOCW 250, and PSYC 250. A student may receive credit for this course from only one program—See SOCI 250 for course description. Lab fee 1 will be assessed for this course.

**SOCW 465 - Topics in Social Work | 1-3 hours**

See SOCW 265 for course description.

**SOCW 494 - International Study Tour | 3-6 hours**

This course is cross-listed with SOCI 294, SOCW 294, and SOCI 494 . A student may receive credit for this course from only one program—See SOCI 494 for course description. Lab fee 33 will be assessed for this course. Additional fees are assessed to cover expenses.

**SOCW 495 - Directed Study | 1-3 hours**

Prerequisite(s): SOCW 212—See SOCW 295 for course description.

**SOCW 496 - U.S. Study Tour | 1-3 hours**

This course is cross-listed with FMST 296, FMST 496, SOCI 296, SOCI 496 and SOCW 296. A student may receive credit for this course from only one program—See SOCI 296 for course description. Lab fee 20 will be assessed for this course.

**SOCW 497 - Research Methods (W) | 3 hours**

Prerequisite(s): MATH 215 or NRSG 316—This course examines the basic research design and methodologies commonly used in the social sciences. Both quantitative and qualitative approaches including single system design are examined along with relevant data analysis techniques. Ethical considerations for doing research with human subjects and vulnerable populations are explored. (Fall)

## Spanish

**SPAN 101 - Elementary Spanish I (I-3c) | 3 hours**

A foundation course in basic language skills. Students who have any background in Spanish language must take the language placement examination. Students should contact department for details on specific scores. This course develops listening and reading strategies with an emphasis on oral and written forms of communication. Laboratory work is required. Lab fee 3 will be assessed for this course. (Fall, Winter, Summer)

**SPAN 102 - Elementary Spanish II (I-3c) | 3 hours**

Prerequisite(s): SPAN 101 or score a minimum of 296 on placement examination, or approval of the department—This course is a continuation of the development of basic language skills. Oral and written communication are strongly emphasized. Laboratory work is required. Lab fee 3 will be assessed for this course. (Winter)

**SPAN 207 - Intermediate Spanish I (I-3c) (SERV-2) | 3 hours**

Prerequisite(s): SPAN 102 or score a minimum of 356 on a placement examination, or approval of the department—Continued emphasis on development of listening and speaking skills. There is, however, an increased emphasis on reading and writing skills through the study of short selections of Spanish literature. Laboratory work is required. Students may get credit for this course by passing a “Challenge Examination” with a grade of B or better. For information on this examination, students should refer to Southern’s Catalog and/or Modern Languages faculty for details. Lab fee 3 will be assessed for this course. (Fall)

**SPAN 208 - Intermediate Spanish II (I-3c) (SERV-2) | 3 hours**

Prerequisite(s): SPAN 207 or score a minimum of 440 on a placement examination or approval of the department—This course maintains a strong emphasis on listening and speaking skills. Through reading of more extensive texts and informal writing as a support for speaking, it develops oral fluency and more effective narrative. Laboratory work is required. Students may get credit for this course by passing

a “Challenge Examination” with a grade of B or better. For information on this examination, students should refer to Southern’s Catalog and/or Modern Languages faculty for details. Lab fee 3 will be assessed for this course. (Winter)

**SPAN 209 - Spanish for Native and Heritage Speakers I (SERV-2) | 3 hours**

Prerequisite(s): Permission of instructor—Designed for students for whom Spanish is their native or heritage language. It provides those students with the opportunity to expand their existing proficiency and to develop their reading and writing skills. Spelling and vocabulary development are stressed. Emphasis will be placed on usage appropriate to academic and professional settings.

**SPAN 210 - Spanish for Native and Heritage Speakers II (SERV-2) | 3 hours**

Prerequisite(s): Permission of instructor—Designed for students for whom Spanish is their native or heritage language. It provides those students with the opportunity to continue expanding their existing proficiency and to continue developing their reading and writing skills. Spelling, vocabulary, and intermediate level grammar and composition are stressed. Emphasis will be placed on usage appropriate to academic and professional settings.

**SPAN 243 - Composition and Conversation | 3 hours**

Prerequisite(s): SPAN 208 or approval of the department—An intensive course aiming at proficiency in understanding, speaking, reading, and writing in Spanish. This course is conducted in Spanish with a high emphasis on elaboration of formal writing. This course offers an opportunity for students to participate at a higher level of language fluency, both, oral and written. (Fall)

**SPAN 265 - Topics in Spanish | 1-3 hours**

Selected topics in Spanish presented in a classroom setting. Subject covered will determine how the course applies to the major. This course may be repeated for credit.

**SPAN 295 - Directed Study | 1-3 hours**

A course emphasizing individual directed study. This course is for students who want to conduct independent research in a specific subject of modern languages. Faculty will assist student with selection of topic and serve as consultant for the project. This course is limited primarily to the department majors and must be approved by the Chair of Modern Languages.

**SPAN 354 - Hispanic Culture and Civilization (SERV-2) | 3 hours**

Prerequisite(s): SPAN 243 or approval of the department—A course designed to study the social, political, economic, artistic, intellectual, and religious aspects of Spanish-speaking society, their diversity of cultures, their interaction, and their past and present projection toward participation in a global arena. (Winter)

**SPAN 355 - Survey of Spanish Literature (S-3a) (W) | 3 hours**

Prerequisite(s): SPAN 243, ELIT 216 and MDLG 230 for Spanish/Spanish Teaching majors or approval of the department—This course is designed to study the history and development of Spanish literature, the many factors affecting literary productions, and the analysis of contemporary Spanish society. As a survey, this course contemplates Medieval Spanish literary productions to present literary movements in Spain. (Fall)

**SPAN 356 - Survey of Spanish-American Literature (S-3a) (W) | 3 hours**

Prerequisite(s): SPAN 243, ELIT 216 and MDLG 230 for Spanish/Spanish Teaching majors or approval of the department—This course is designed as a survey of Spanish-American literary production from travel writing in the Sixteenth Century to contemporary literary productions in the many cultures of countries understood as the Americas. (Winter)

**SPAN 360 - Spanish Through Genre Analysis (W) | 3 hours**

Prerequisite(s): ELIT 216, SPAN 243, and MDLG 230 for Spanish/Spanish Teaching majors or approval of the department—This course is a historical study of some major literary works from Spain and Spanish America as presented in short story, novel, drama, poetry, and essay. Special emphasis given to political impact, social context, and individual characteristics of chosen literary works. This course will be conducted entirely in Spanish and will focus on active speaking, reading, text analysis, and writing.

**SPAN 454 - Latino Literature (S-3a) (W) | 3 hours**

Prerequisite(s): ELIT 216 and MDLG 230 or approval of the department—This course is cross-listed with ELIT 454. A student may receive credit for this course from only one program—This course is designed to approach literary production of U.S. Latinos and Mexican-Americans. Works reflect their socio-cultural significance in the national fabric of U.S. society. Their inevitable linguistic tension is an assumed common “national” space of literary production, which presents a variety of works that project a social struggle, a political agenda, and a beauty of narrative by today’s still considered non-canonical authors in the U.S. This course offered in English.

**SPAN 465 - Topics in Spanish | 1-3 hours**

See SPAN 265 for course description.

**SPAN 490 - Comprehensive Examination Preparation | 1 hour**

This course is designed to provide academic support for Spanish majors who will be taking the MCE required for graduation. One member of the faculty will meet with the student regularly to provide the opportunity to cover material pertinent to this examination. Spanish majors must take this course prior to graduation in the last semester. Results of the MCE will be the final grade for this course.

**SPAN 495 - Directed Study | 1-3 hours**

See SPAN 295 for course description.

## Technology

**TECH 104 - Field Engineering (S-3d) | 1 hour**

Selection of a building site on the available property. Drainage issues, utilities access, and sewage preparation of house and supporting access such as sidewalks, driveways, and retainer walls will be taught. Fundamentals of construction surveying including taping, leveling, angular surveying, bridge layout, circular curves, building layout, and grade staking. Lab fee 2 will be assessed for this course.

**TECH 113 - Industrial Safety | 1 hour**

Course content is designed to raise an awareness of safety in work place conditions and practices. Safety communication, personal protective equipment, fall protection, and fire protection and prevention are among the topics of discussion. Emphasis is placed on the role and responsibility of a supervisor to recognize and respond appropriately to unsafe working conditions and practices. Activities and outings are provided to support and supplement the learning environment. Students will earn their First Aid certification and CPR with AED certification. Lab fee 5 will be assessed for this course.

**TECH 114 - Oxy-Acetylene Welding (S-3d) | 1 hour**

Gas welding and brazing of sheet metal in preparation for typical body shop welding jobs. Personal safety glasses required. Certain specialized welding processes will be taught, such as TIG, cast iron, or others to be arranged on an individual basis. Lab Fee 4 will be assessed for this course. (Winter)

**TECH 115 - Arc Welding (S-3d) (SERV-2) | 2 hours**

A course designed to give basic understanding of arc welding processes. Emphasis will be given to MIG as well as conventional stick welding. One project required that will be donated to the Samaritan Center or similar organization. Each student must purchase safety glasses and welding gloves. Lab fee 5 will be assessed for this course. (Fall)

**TECH 122 - Woodworking for Artists | 1 hour**

A study of woodworking shop safety, hand and machine tools, joinery, and proper methods of picture frame and stretcher construction. One period lecture and one period laboratory each week. Lab fee 4 will be assessed for this course.

**TECH 128 - Beginning Blacksmithing | 1 hour**

This course will cover the basics of the craft of blacksmithing and shop safety. Topics will include fire building and management, hammer techniques to shape steel, other tools used to shape steel and the making of some of those tools, and forge welding. The student will take a validation exam to demonstrate competency in the class.

**TECH 132 - Electrical—Residential | 3 hours**

A practical overview primarily focused on the essential components, fundamental concepts, and design/code considerations of residential electrical wiring from a trade and management perspective.

**TECH 133 - Plumbing—Residential | 1 hour**

A practical overview primarily focused on the essential components, fundamental concepts, and design/code considerations of residential plumbing from a trade and management perspective.

**TECH 134 - HVAC and Insulation | 1 hour**

A practical overview primarily focused on the essential components, fundamental concepts, and design/code considerations of residential HVAC (heating, ventilating, and air conditioning) from a trade and management perspective. Emphasis will also be placed on calculating heat/AC loads and their relationship to a building's thermal efficiency (insulation).

**TECH 135 - Finishes—Drywall, Painting, Tile, and Trimwork | 1 hour**

A practical overview primarily focused on the essential components, fundamental concepts, and design/code considerations of residential finishes from a trade and management perspective.

**TECH 138 - Practical Technology for Developing Countries | 2 hours**

This course covers technologies that third world countries desperately need and that service organizations required to effectively help in devastated areas. This class is hands on and very practical.

**TECH 140 - Structures and Analysis I | 2 hours**

An introductory course in the calculated analysis of forces acting on a structure in equilibrium and the reactive structural behavior to those forces. Topics covered may include, but not be limited to: resultants, moment, load paths, equilibrium, free body diagrams, friction, center of gravity, moment of inertia, stress and strain. Lab fee 4 will be assessed for this course.

**TECH 147 - Methods and Materials of Construction | 2 hours**

This course is designed to provide the students with an understanding of the most commonly used materials in the construction industry, their inherent and manipulated properties, and industry applications. The history and development of materials will also be considered. Individual and group projects related to the studied materials will provide hands-on manipulation and personal creativity. Field trips will be scheduled to supplement student exposure and learning. Lab fee 1 will be assessed for this course.

**TECH 149 - Introduction to Mechanical Drawing and CADD (S-3d) | 3 hours**

This course is cross-listed with ENGR 149. A student may receive credit for this course from only one program—An introductory level course in Computer-Aided Drafting Design (CADD) using AutoCAD software in orthographic projection, surface development, sectioning, pictorial representation, dimensioning, and working drawings. Drawings plotted to scale on A, B, C, and D size paper. Six periods of laboratory each week. Lecture as announced by the instructor. Lab fee 3 will be assessed for this course. (Fall)

**TECH 150 - Blueprint Reading | 3 hours**

For first year Architectural Drafting students. Concepts of the course cover principles of technical projection, architectural applications, sections and details, pictorial drawings, linetypes, architectural symbols, and notations and specifications. The student will have a working knowledge of the various types of drawings that constitute a set of working drawings to include floor plans, foundation plans, elevations, roofing, plumbing and heating, electrical, interior elevations, and framing plans. Lab fee 1 will be assessed for this course.

**TECH 151 - Introduction to Architectural Drafting and CADD (S-3c) (SERV-2) | 3 hours**

An introduction to skills and basic knowledge of architectural drafting. Emphasis is on lettering, orthographic projection, parallel line pictorial drawings, shades and shadows, and perspective drawing. Open to all students. Lab fee 2 will be assessed for this course.

**TECH 152 - Structures and Analysis II | 2 hours**

Prerequisite(s): TECH 140—A continued study in the calculated analysis of forces acting on a structure in equilibrium and the reactive structural behavior to those forces. Topics covered may include, but not be limited to: stress and strain, torsion, shear forces, bending moments, deflection. Design calculations will be considered for beams, columns, and connections with consideration given based on the properties of different materials. Lab fee 4 will be assessed for this course.

**TECH 154 - Woodworking (S-3c) (SERV-2) | 3 hours**

A study of hand and machine tools, joinery, and proper methods of furniture construction. The required introductory project will be donated to a charitable organization such as the Samaritan Center. One period lecture, six periods laboratory each week. A supplies fee will be charged for the cost of the materials used in project construction. Lab fee 4 will be assessed for this course.

**TECH 157 - Electrical, Mechanical and Finishes II | 2 hours**

Pre- or Co-requisite: TECH 113—A practical overview primarily focused on the principles and practice of finish installations of a construction project from a trade and management perspective. Topics will include but not be limited to insulation, sheetrock, interior trim, floor coverings, paint, cabinets, and installation of electrical, plumbing, and HVAC fixtures. Local codes will be considered as required. Hands-on experience provided through real building project. Lab fee 10 will be assessed for this course.

**TECH 164 - Automotive Maintenance (S-3d) | 2 hours**

A course designed to help the car owner become knowledgeable in the matters of buying, servicing, and maintaining the auto. The student will work on his own car or on one belonging to the shop. One period lecture and three periods laboratory each week. Lab fee 4 will be assessed for this course. (Fall)

**TECH 166 - Auto Electrical Systems (S-3d) | 2 hours**

A course designed to give a basic understanding of automotive electrical systems. Basic electrical principles and troubleshooting techniques will be taught. Emphasis will be given to lighting, charging, starting and accessory systems. One period lecture, three periods lab per week. Lab fee 7 will be assessed for this course. (Fall)

**TECH 167 - Suspension, Steering and Alignment | 3 hours**

A course designed to give understanding of automotive suspension and steering systems. Chassis service, repair, and troubleshooting will be taught. Alignment of both two and four wheel alignment systems will be taught. One and a half period lecture and four and a half hours of labs per week.

**TECH 168 - Manual Drive Train, and Axles (S-3d) | 3 hours**

A study of manual drive train operation, diagnosis and repair, clutches, manual transmissions and transaxles. Repair of differentials and transfer cones will be taught as well as four wheel drive theory, operation, and service.

**TECH 169 - Automotive Brakes (S-3d) | 3 hours**

A study of brake system operations, troubleshooting, and repair. Conventional and antilock brake systems will be taught.

**TECH 171 - Concrete—Residential | 2 hours**

TECH 113 for the section for CM majors. No prerequisites for non CM majors—A practical overview primarily focused on the essential components, fundamental concepts, and design/code considerations of residential concrete work (flat work and form work) from a trade and management perspective.

**TECH 172 - Masonry—Residential | 2 hours**

A practical overview primarily focused on the essential components, fundamental concepts, and design/code considerations of residential masonry (brick, block, and stone) from a trade and management perspective.

**TECH 173 - Carpentry—Residential | 2 hours**

A practical overview primarily focused on the essential components, fundamental concepts, and design/code considerations of residential carpentry from a trade and management perspective. We will be covering all aspects of house framing and of building decks.

**TECH 175 - Engine Rebuilding and Machining (S-3d) | 4 hours**

A course designed to acquaint the student with major engine diagnosis, decision making and overhaul procedures. Machining and measuring processes related to engine rebuilding will be taught. Each student will be required to rebuild an engine and do engine machine work. Two periods lecture, six periods of lab per week.

**TECH 178 - Heating and Air Conditioning (S-3d) | 2 hours**

A course designed to teach the principles of heating and air conditioning systems. Emphasis will be given to service and trouble shooting of manual and automatic heating systems of late model cars. One period lecture, three periods lab per week. (Winter, alternate years)

**TECH 183 - Basic Electronics | 3 hours**

An introductory course to the properties of electricity/electronics as they pertain to AC and DC electrical circuits and devices such as diodes, transistors and integrated circuits. Intended to introduce the beginning student to the field of electronics. Two three-hour lecture/labs each week.

**TECH 230 - Automatic Transmission | 3 hours**

A course designed to give understanding of automatic transmissions, transaxle overhaul and troubleshooting. Transmission removal, installation, rebuilding, and service will be taught. One hour lecture and five hours lab time per week. (Winter, alternate years)

**TECH 244 - Graphic Production | 3 hours**

Prerequisite(s): ARTG 238 or JOUR 208 or permission of instructor—This course is designed to meet the needs of Public Relations, Graphic Design, Journalism and Communication students who will be working with a print service provider. Students will be working (hands on) with real printing jobs, selecting paper, ink, image carriers, offset or digital presses, and screen printing to print materials from single color to four color process. The knowledge and experience gained from this class will be most beneficial in planning a print job for a service provider. Lab fee 7 will be assessed for this course. (Winter)

**TECH 248 - CADD Mechanical (I-2c) | 3 hours**

Prerequisite(s): TECH 149 or TECH 151—This course covers the application of CAD skills using AutoCAD software to the areas of architecture, structural design, pipe, welding, fasteners, pattern development, cams and gears and map drafting. Six periods of laboratory each week. Lecture as announced by the instructor. Lab fee 2 will be assessed for this course. (Winter)

**TECH 254 - Furniture Design and Construction | 3 hours**

Prerequisite(s): TECH 154—Emphasis will be placed on the design and techniques necessary to construct a quality piece of furniture. Two-three hour lecture/lab each week. A supplies fee will be charged for the cost of the materials used in project construction. Lab fee 4 will be assessed for this course.

**TECH 255 - Construction Estimating | 3 hours**

Commercial and residential cost planning techniques will be taught including overhead, labor, materials, and hidden costs. How to schedule to efficiently utilize the work for subcontractors will be taught, along with bid preparation and cost analysis of materials and profit margins.

**TECH 262 - Construction Contract Administration | 2 hours**

Surveys, administrative procedures of general and subcontractors. Studies documentation, claims, arbitration, litigation, bonding, insurance, and indemnification. Discusses ethical practices. Lecture, and field trips. Lab fee 3 will be assessed for this course.

**TECH 264 - Automotive Repair (S-3d) | 3 hours**

A course designed to give basic understanding of the automobile. Main emphasis is given to power plant and drive train design, operation and service. One period lecture and three periods laboratory each week. All lab learning experience is on actual cars either from the community or personal vehicles.

**TECH 265 - Topics in Technology | 1-3 hours**

Topics selected from areas of technology not covered in other courses. May be repeated with permission.

**TECH 266 - Topics in Construction | 1-2 hours**

A course designed to explore and understand current topics of relevance to the changing environment of the construction industry. Lab fee may be assessed for this course depending on the topic. May be repeated for up to 2 credits.

**TECH 270 - Service in Construction (SERV-2) | 1-2 hours**

Prerequisite(s): Second year Construction Management major and instructor approval—An integrated application for development and reinforcement of trade and/or management skills through service initiatives. Students, collaboratively with the construction management instructor will seek out, select, arrange, and participate in service activities that engage and challenge the utilization of elements from their construction management education and through which immediate benefits are brought to others. To be at least 50 documented hours per credit hour completed during the semester taken. Activity involvement outside the semester may count toward the 50 hours needed at the discretion of the instructor. Submission of the two-year portfolio required for successful completion. May be taken for 1 or 2 credits.

**TECH 273 - Estimating and Automotive Business Practices | 1 hour**

Prerequisite(s): Minimum of 25 hours of Auto courses—A course in estimate writing, customer relations, and business practice in an automotive shop. Training in how to use an estimated labor time guide as well as parts purchasing will be included.

**TECH 276 - Engine Performance and Computers (S-3d) | 3 hours**

Electronic and computerized ignition systems operating theory will be emphasized. Each student will be taught drivability diagnosis and troubleshooting techniques for electronic and computerized systems. Hands on diagnosis practice using diagnostic equipment on live vehicles will be given.

**TECH 277 - Engine Fuel and Emission Controls | 4 hours**

Both carburetor and fuel injection operation theory, and standard and electronic carburetion systems theory will be covered. Fuel injection diagnosis and repair as well as carburetor overhaul procedures will be taught. Emission control operation as well as trouble shooting and service procedures will be taught.

**TECH 278 - History of Architecture | 3 hours**

Studies of the history of architecture and urban design. Focus on religious and secular monuments and their settings. Domestic architecture and infrastructure, regional constructional, and compositional traditions from ancient, medieval, and renaissance through to the present.

**TECH 291 - Practicum | 1-3 hours**

Prerequisite(s): Departmental approval and completion of 27 semester hours of Technology classes—Supervised work experience in Auto Body or Auto Service. Procedures and guidelines are available from the department. The required hours are 50 hours per credit hour.

**TECH 295 - Directed Study | 1-3 hours**

The study of a specific problem in the field of Technology. A written report of the problem may be required by the supervising instructor. Open only to those earning a minor in Technology. Offered on demand.

**TECH 299 - Advanced Engine Performance | 3 hours**

Prerequisite(s): TECH 276 or equivalent—A course in advanced electronic and computerized engine control system theory and diagnostics. On board diagnostics II on 1995 and later vehicles will be taught. Lab experience will include scan tool and lab scope usage in diagnosing OBDII systems.

**TECH 328 - Advanced Architectural Drafting | 3 hours**

Prerequisite(s): TECH 151 or equivalent—This course covers all aspects of the development of working drawings for complete sets of plans for residential and commercial construction. Students will use up-to-date CAD software and develop the skill to complete such plans efficiently. One hour of lecture and two hours of lab. Lab fee 2 will be assessed for this course.

**TECH 348 - 3D CAD Drafting | 3 hours**

Prerequisite(s): TECH 151 or equivalent—This course is designed to give the student hands-on experience with modern 3D drafting software to produce architectural elevations, perspective drawings, walk-through animations, and presentations for applications in architectural drafting. One hour lecture and two hours of lab. Lab fee 2 will be assessed for this course.

**TECH 354 - Furniture Design and Construction | 3 hours**

Prerequisite(s): TECH 154—See TECH 254 for course description. Lab fee 4 will be assessed for this course.

**TECH 375 - Engine Rebuilding and Machining | 4 hours**

See TECH 175 for course description

**TECH 376 - Automation and Robotics | 4 hours**

Basic elements and principles of computer integrated manufacturing including terminology, computer hardware/software and interfacing, system integration, flexible manufacturing, and robotic applications.

**TECH 377 - Engine Performance and Computers | 3 hours**

See TECH 276 for course description.

**TECH 465 - Topics in Technology | 1-3 hours**

See TECH 265 for course description.

**TECH 492 - Internship | 3 hours**

Prerequisite(s): Departmental approval and completion of 21 semester hours of Technology courses—Supervised work experience in architectural or mechanical drafting. Procedures and guidelines are available from the department.

**TECH 495 - Directed Study | 1-3 hours**

See TECH 295 for course description.

## **Vegetarian Culinary Arts**

**VGCA 101 - Professional Cooking: Vegetarian Main Dishes and Entrees I | 1 hour**

This course equips the student with skills necessary to prepare a variety of vegetarian and vegan main dishes and entrees. Lacto-ovo and vegan dishes will be explored along with the health benefits of individual ingredients. Lab fee 8 will be assessed for this course.

**VGCA 102 - Professional Cooking: Main Dishes and Entrees II | 1 hour**

This course teaches the culinary skills necessary to prepare meat analogs and more complex entree recipes with emphasis on portioning and advanced cooking methods. Lab fee 8 will be assessed for this course.

**VGCA 105 - Professional Cooking: Baking and Pastry I | 1 hour**

This course covers basic theory and skill sets used throughout the fields of baking and pastry preparation. Use of kitchen tools and techniques specific to baking and pastry are taught. Students will learn the importance of exact ratios and the function of each ingredient in turning out perfect baked products. Methods such as creaming, blending, foaming, meringues, and straight doughs are covered. Lab fee 8 will be assessed for this course.

**VGCA 106 - Professional Cooking: Baking and Pastry II | 1 hour**

This course covers the culinary skills necessary to prepare different yeast and non-yeast, bakery products such as breads, laminated doughs, cakes, biscotti, etc. Lab fee 8 will be assessed for this course.

**VGCA 109 - Professional Cooking: Soups, Sandwiches and Salads I | 1 hour**

This course covers a range of cold prep foods including the healthful preparation of vegetarian and vegan soups, sandwiches, salads, and salad dressings. Lab fee 8 will be assessed for this course.



**VGCA 110 - Professional Cooking: Soups, Sandwiches and Salads II | 1 hour**

This course covers the healthful preparation of vegetarian and vegan soups, sandwiches, salads, and salad dressings. Additional emphasis is placed on commercial production, taste testing and sensory evaluation, and advanced cold preparation kitchen skills. Lab fee 8 will be assessed for this course.

**VGCA 113 - Professional Cooking: Desserts I | 1 hour**

This course teaches the culinary skills necessary to prepare vegetarian and vegan desserts including custards, creams, sauces, fruit salad, fruit pies/cakes, cookies, chocolate-based desserts, and others. Lab fee 9 will be assessed for this course.

**VGCA 114 - Professional Cooking: Desserts II | 1 hour**

This course teaches the culinary skills necessary to prepare advanced vegetarian and vegan desserts. Lab fee 9 will be assessed for this course.

**VGCA 117 - Professional Cooking: Vegetables, Grains and Side Dishes I | 1 hour**

This course covers health preparation of vegetables and grains and the preparation of appropriate side dishes for the menu. Lab fee 8 will be assessed for this course.

**VGCA 118 - Professional Cooking: Vegetables, Grains and Side Dishes II | 1 hour**

This course covers healthful preparation of vegetables and grains using advanced kitchen preparation skills and traditional as well as unique recipes and ingredients. Vegan recipes will be emphasized. Lab fee 8 will be assessed for this course.

**VGCA 121 - Professional Cooking: Fresh and Raw I | 1 hour**

This course covers techniques for preparing entrees, side dishes, and desserts using primarily fresh and raw ingredients. Lab fee 8 will be assessed for this course.

**VGCA 125 - International Ethnic Cuisines: The Americas I | 1 hour**

This course explores regional cuisines of the Americas. Lab fee 8 will be assessed for this course.

**VGCA 126 - International and Ethnic Cuisines: Europe and Asia I | 1 hour**

This course explores various regional cuisines of Europe and Asia. Lab fee 9 will be assessed for this course.

**VGCA 130 - Nutritional Cooking I | 1 hour**

This course teaches the culinary skills necessary to prepare a wide variety of vegetarian and vegan main dishes and entrees. Lacto-ovo, vegan and raw dishes are explored along with the health benefits of individual ingredients. Lab fee 8 will be assessed for this course.

**VGCA 140 - Professional Cooking: Beverages I (Elective) | 1 hour**

This course covers the healthful preparation of a wide array of beverages including health and sport beverages, smoothies, tea and tea service, and juices. Lab fee 8 will be assessed for this course.

**VGCA 142 - Professional Cooking: Fish and Poultry (Elective) | 1 hour**

This course will teach the culinary skills necessary to prepare basic clean meat entrees using fish and poultry. In SDA health care, long-term care, and camp environments, preparation and service of clean meats is present. Preparation of clean meats relative to safety, handling, cooking, and serving is important for employment in these environments and others. Lab fee 9 will be assessed for this course.

**VGCA 144 - Professional Cooking: Beef (Elective) | 1 hour**

This course teaches the culinary skills necessary to prepare meat entrees using beef. In SDA health care, long-term care, and camp environments, preparation and service of clean meats is present. Preparation of clean meats relative to safety, handling, cooking, and serving is important for employment in these environments and others. Lab fee 9 will be assessed for this course.

**VGCA 146 - Professional Cooking: Appetizers I (Elective) | 1 hour**

This course covers the healthful preparation and artful presentation of appetizers. Lab fee 8 will be assessed for this course.

**VGCA 151 - Food Safety and Sanitation | 2 hours**

This course covers essential techniques for preserving the nutritional value of food without compromising the absolute requirement for providing safe and wholesome food. Techniques for sanitizing the workplace and preventing foodborne illness are covered. ServSafe certification is part of this course. Lab fee 3 will be assessed for this course.

**VGCA 161 - Introduction to Culinary Arts and Skills | 2 hours**

This course covers the evolution of classical and modern culinary skills. This course covers basic food preparation techniques for cooking eggs and preparing and serving dairy products. Basic knife skills,

cooking techniques, garnishing, and sauce and stock preparation are covered. Lab fee 12 will be assessed for this course.

**VGCA 171 - Introduction to Food Purchasing, Preparation and Presentation | 3 hours**

This course covers menu development, food identity standards, product quality, as purchased/edible portion calculations, having the necessary ingredients in the appropriate state, and various forms of food presentation. Scaling production for small to large operations, food/menu costing, purchasing, and scheduling are covered. Lab fee 8 will be assessed for this course.

**VGCA 175 - Introduction to Culinary Supervision and Management | 2 hours**

This course covers various aspects of supervision, personnel management, employment laws, and payroll.

**VGCA 181 - Introduction to Marketing for Culinary Professionals | 1 hour**

This course covers basic marketing strategies essential for understanding how to be successful as a culinary professional. The requirement for a professional portfolio as part of a personal marketing plan is introduced.

**VGCA 191 - Health Benefits of Vegetarian Diets I | 2 hours**

This course covers historical aspects of vegetarian diets including vegan, raw and whole foods dietary patterns. Health benefits and potential pitfalls are discussed. Current research is explored with relevance to preparing healthful vegetarian menus.

**VGCA 192 - Vegetarian Culinary Arts Internship | 4 hours**

This course provides the student with 400 clock hours of culinary experience at a restaurant, catering company, hospital food service, camp, or other food service operation. This gives the student the opportunity to put into practice skills they have learned in class. Internship placement assistance will be provided by Southern. Weekly meeting and/or tele-conference with a University professor is required.

# The Registry

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## University Administration

### President

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Vinita Sauder, Ph.D. (1983)

President

Vice President, Strategic Initiatives

### Information Systems

Gary Sewell, B.S. (2012)

Doru Mihaescu, M.B.A. (1997)

Herdy Moniyung, M.S. (1999)

Mike McClung, B.A. (1996)

Judy DeLay, B.A., C.P.A. (1982)

Bryce Enevoldson, B.S. (2005)

Randi Buhl, A.A. (2001)

Jason Gates, B.S. (2014)

Paul Irwin, B.S. (2011)

Josh Rhodes, B.S. (2007)

Associate Vice President, Information Services

Associate Director, Digital Networking

Associate Director, Info Processing

Assistant Director, Workstation Support

Senior Programmer/Analyst

Programmer/Analyst

Network Administrator

Network Analyst

Programmer/Analyst

Network Administrator

### Institutional Research and Planning

Hollis James, Ph.D. (2003)

Director, Institutional Research and Planning

### Academic Administration

Robert Young, Ph.D. (2007)

Volker Henning, Ph.D. (1989)

Senior Vice President, Academic Administration

Associate Vice President, Academic Administration

**Center of Teaching Excellence and the Integration of Faith and Learning**

Cynthia Gettys, Ph.D. (2013)	Director, Center of Teaching Excellence
Elaine Plemons, M.A. (2007)	Associate Director, Center of Teaching Excellence

**Graduate Studies**

Carl Swafford, Ph.D. (1992)	Dean, Graduate Studies
Laurie Gauthier, M.B.A. (2008)	Director, Grad. Marketing and Enrollment
Melodie Lopez, B.A. (2006)	Director, Graduate Admissions

**Library**

Daniel Maxwell, Ph.D. (2004)	Director, Library
Deyse Bravo, M.L.S. (2011)	Periodicals Librarian
Stanley Cottrell II, M.L.S. (2004)	Technical Services Librarian
Kathryn McGrath, M.Ed. (2008)	Reference/Instruction Librarian
Ron Miller, B.S. (1995)	Library Computer Support
Jessica Spears, M.Ed. (2013)	Embedded Knowledge Specialist
Online Campus	
Pegi Flynt, Ed.D. (2007)	Director, Online Campus
Ryan Harrell, M.A. (2012)	Media and Creative Specialist
Greg Merchant, B.S. (2012)	Teaching Technology Manager

**Records and Advisement**

Joni Zier, M.S.Ed. (1993)	Director, Records and Advisement
Sharon Rogers, M.Ed. (1977)	Assistant Director, Records and Advisement
Sandy Tucker, B.S. (1997)	Assistant Director, Records and Advisement
Don Crumley, B.S. (2004)	Data Analyst

**Advancement**

Christopher Carey, M.S., B.S. CFRE (2005)	Vice President, Advancement
---	-----------------------------

**Alumni Relations**

Evonne Crook, B.A. (1980)	Director, Alumni Relations
---------------------------	----------------------------

**Conventions**

Sharon Robberson, B.S. (2007)	Director, Conference and Events
Leslie Ann Schwarzer, B.S. (2005)	Conference Services Coordinator

**Development**

Geovanny Ragsdale, M.I.B. (2009)	Director, Development
Cheryl Torres, B.A. (2013)	Annual Fund Coordinator
Kimberly Miller, M.Acc., C.P.A. (2009)	Senior Gift Officer
Robert Bovell, B.A. (1993)	Major Gift Officer
Kenney Turpen, B.S. (2009)	Major Gift Officer

**Planned Giving**

Carolyn Liers (1996)	Director, Planned Giving
----------------------	--------------------------

**WSMC FM90.5**

Scott Kornblum, B.S./B.A. (2005)	Director, WSMC
Robert Raney, B.S. (2003)	Underwriting Sales Rep

**Financial Administration**

Tom Verrill, M.S. (2008)	Senior Vice President, Financial Admin.
Doug Frood, M.S. (2001)	Associate Vice President, Financial Administration

Martin Hamilton, B.A. (1998)	Budgeting and Finance
Russell Orrison (2003)	Associate Vice President, Financial Admin.
Justin Brooks, B.A. (2006)	Director, Purchasing Assistant Director, Purchasing

### Accounting and Financial Services

David Huisman, B.S., C.P.A. (1993)	Controller
Angela Teague, B.A. (2009)	Senior Accountant

### Campus Safety

Kevin Penrod, B.S. (2007)	Director, Campus Safety
---------------------------	-------------------------

### Human Resources

Brenda Flores-Lopez, B.S. (2011)	Director, Human Resources
David Olson, M.B.A. (1995)	Manager, Payroll

### Industries

Gary Shockley (2006)	Manager, Village Market
Danita Payne (1986)	Manager, Campus Shop

### Risk Management

Crystal Stitzer, M.S. (2007)	Director, Risk Management
------------------------------	---------------------------

### Services

Mark Antone, A.S. (1984)	Director, Landscape Services
Barry Becker (1993)	Director, Transportation Services
Greg Cook (2010)	Director, Food Service
Eric Schoonard, A.S. (2002)	Director, Plant Services
Dennis Schreiner (1997)	Director, Service
Candace Wing, B.S. (2007)	Director, University Health Center
Dave Allemand, A.A.A.S. (2004)	Associate Director, Plant Services
Bill Cruttenden (2011)	Associate Director, Plant Services
Fred Turner, B.ARCH. (1996)	Corporate Architect

### University Health Center

Bill Rawson, PA-C (2008)	Physician's Assistant
--------------------------	-----------------------

### Enrollment Services

Marc Grundy, M.B.A. (1997)	Vice President, Enrollment Services
Ryan Herman, B.S. (2003)	Associate Vice President, Enrollment Services

### Admissions and Recruitment

Marc Grundy, M.B.A. (1997)	Vice President, Enrollment Services
Adam Brown, B.S. (2006)	Director, Admissions and Recruitment
Ruben Covarrubias, M.B.A. (2009)	Assoc. Director, Admissions and Recruitment
Kent Robertson, B.S. (1999)	Assist. Director, Admissions and Recruitment
Lauren Brooks, B.S. (2013)	Enrollment Counselor
Castwell Fider, B.S.W. (2012)	Enrollment Counselor
Maggie Mendoza, B.S. (2014)	Enrollment Counselor

### Marketing and University Relations

Ingrid Skantz, B.S. (1990)	Director, Marketing and University Relations
Isaac James, B.S. (2008)	Manager, eCommunications
Ryan Pierce, A.A. (2009)	Manager, Graphic Design
Tina Smith, B.A. (2011)	Manager, Project and Planning
Jason Bryner, B.A. (2010)	Assistant, Web Development

**Student Finance**

Marc Grundy, M.B.A. (1997)	Vice President, Enrollment Services
Paula Walters, B.S. (2005)	Director, Student Finance
Lillian Loza, B.A. (2006)	Associate Director, Student Finance
Christian Patino, B.B.A. (2010)	Assistant Director, Student Finance
Ginger Cheney, B.S. (2004)	Student Finance Counselor
Carlos Lopez, A.A.S.S. (2012)	Student Finance Counselor
Fred McClanahan, B.A./B.S. (2004)	Student Finance Counselor
Brittany Poarch, B.S. (2010)	Student Finance Counselor
Michael Rumsey, B.S. (2013)	Student Finance Counselor
Rebekah Spears, B.S. (2014)	Student Finance Counselor

**Student Services Administration**

Kari Shultz, M.A. (1999)	Vice President, Student Services Director, Student Life
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**Campus Chaplain**

Brennon Kirstein, M.Div. (2007)	Chaplain
Kevin Kibble, M.Div. (2005)	Assistant Chaplain

**Residence Halls**

Dwight Magers, M.A. (1993)	Director of Residence Halls Housing and Dean of Men
Lisa Hall, B.A. (2004)	Dean of Women
Jeffrey Erhard, M.A.T. (1997)	Associate Dean of Men
Carl Patterson, M.A. (2004)	Associate Dean of Men
John Sager, B.A. (2001)	Associate Dean of Men
Kevin Pride, B.A. (2007)	Assistant Dean of Men
Chamra Anthony, M.A. (2007)	Associate Dean of Women
Tisha Looby, B.A. (2011)	Assistant Dean of Women
J.P. Mathis, B.S. (2008)	Assistant Dean of Women
Susan Pennington, B.S. (2012)	Assistant Dean of Women

**Student Success Center**

Jim Wampler, Psy.D. (1993)	Director, Student Success Center/Testing Services
Januwoina Nixon, Ph.D. (2006)	Director, Learning Support Services
Renita Klischies, M.S. (2003)	First Year Advising and Allied Health Coord.
Cheri Durst, M.S. (2013)	Retention and First-Year Coordinator
Jeremy Moore, M.S. (2007)	Career Services Coordinator
Sheila Smith, M.A. (1997)	Disability Services Coordinator
Liane de Souza, M.S. (2003)	Counselor/International Student Adviser

**Church Pastors**

David Smith, Ph.D. (2011)	Senior Pastor
Sam Chetty, M.Th. (2009)	Pastor of Local Mission and Ministry
Tim Cross, M.Div. (2002)	Pastor of Family Ministries
William Hurtado (2012)	Youth Pastor
Wolf Jedamski, M.A. (1992)	Church Administrator/Pastor of Missions
Ken Norton, M.Div. (2012)	Pastor of Fellowship and Young Adult
Cherie Smith, B.S. (2011)	Pastoral Director of Spiritual Development
Carole Verrill (2008)	Children's Ministries

**Faculty Emeriti**

Bruce Ashton, D.M.A., Professor Emeritus of Music
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Ronald M. Barrow, Ph.D., Vice President Emeritus for Admissions and College Relations  
 Peggy Bennett, M.S.L.S., Associate Professor Emerita of Library Science  
 Jack Blanco, Ph.D., Professor Emeritus of Religion  
 John Durichek, M.A., Assoc. Professor Emeritus of Computing and Technology  
 Mary Elam, M.A., Associate Vice President Emerita of Academic Administration  
 Lorraine Grace, M.S.L.S., Associate Professor Emerita of Library Science  
 Floyd Greenleaf, Ph.D., Vice President Emeritus of Academic Administration  
 Leona Gulley, Ed.D., Professor Emerita of Psychology  
 Larry Hanson, Ph.D., Professor Emeritus of Mathematics  
 Carole Haynes, Ed.D., Professor Emerita of Education  
 Ray Hefferlin, Ph.D., Professor Emeritus of Physics  
 Shirley Howard, M.S., Associate Professor Emerita of Nursing  
 Bonnie Hunt, M.S., Associate Professor Emerita of Nursing  
 Ed Lamb, M.S.S.W., Professor Emeritus of Social Work and Family Studies  
 Katie Lamb, Ph.D., Associate Vice President Emerita of Academic Administration  
 Robert Merchant, M.B.A., Treasurer Emeritus  
 Clifford Myers, Sr., Director Emeritus of Campus Safety  
 Louesa Peters, B.A., Associate Treasurer Emerita  
 Dennis Pettibone, Ph.D., Professor Emeritus of History  
 Marvin Robertson, Ph.D., Professor Emeritus of Music  
 Cecil Rolfe, Ph.D., Professor Emeritus of Business Administration  
 Barbara Ruf, Ph.D., Professor Emerita of English  
 Shirley Spears, M.S., Associate Professor Emerita of Nursing  
 Mitchell Thiel, Ph.D., Professor Emeritus of Chemistry  
 Thelma Wearner, M.A., Associate Professor Emerita of Home Economics  
 Erma Webb, M.S., Associate Professor Emerita of Nursing

## **Instructional Faculty**

*(Dates in parentheses indicate the beginning year of employment at Southern Adventist University.)*

### **Kerry Allen-M.S.N., Associate Professor of Nursing**

B.S. and M.S.N., Southern Adventist University. (2010)

### **Patricia Anderson-Ph.D., Professor of Mathematics**

B.S., Southwestern Adventist University; Ph.D., University of Texas at Arlington. (2007)

### **Scot Anderson-Ph.D., Professor of Computing**

B.S., Southwestern Adventist University; M.S. and Ph.D., University of Nebraska, Lincoln. (2007)

### **Joyce L. Azevedo-Ph.D., Professor of Biology**

B.S., Union College; M.A. and Ph.D., University of California, Riverside. (1992)

### **Evie Nogales Baker-M.S.W., Associate Professor of Social Work**

B.A., Southern Adventist University; M.S.W., University of Tennessee, Knoxville. (2005)

### **Lorraine Ball-M.S., Associate Professor of Journalism and Communication**

B.A., Atlantic Union College; M.S., Clark University. (2001)

### **W. Scott Ball-Ph.D., Dean and Professor of Music**

B.Mus, Arizona State University; M.A. and M.Div., Andrews University; Ph.D., The Ohio State University. (2000)

**Loren Barnhurst-Ph.D., Professor of Chemistry**

B.A., Andrews University; Ph.D., University of Denver. (2002)

**Stephen Bauer-Ph.D., Professor of Religion**

B.A., Atlantic Union College; M.Div. and Ph.D., Andrews University. (1999)

**John Beckett-D.B.A., Professor of Computing**

B.S. and M.B.A., Southern Adventist University; D.B.A., Nova Southeastern University. (1975)

**Robert Benge-Ph.D., Dean and Professor of Physical Education, Health and Wellness**

B.S., Southern Adventist University; M.S.Ed., Old Dominion University; Ph.D., University of New Mexico. (1998)

**Krystal Bishop-Ed.D., Professor of Education**

B.S., Southern Adventist University; M.A. and Ed.D., University of South Florida, Tampa. (1996)

**Randy Bishop-M.P.T., Associate Professor of Biology/Allied Health**

B.B.A., Southern Adventist University; M.P.T., Andrews University. (2010)

**Mike Boyd-M.S.S., Associate Professor of Physical Education, Health and Wellness**

B.S., Atlantic Union College; M.S.S., United States Sports Academy. (2007)

**Marc Boyson-M.F.A., Assistant Professor of Visual Arts and Design**

B.A. and M.A.T., Andrews University; M.F.A., University of the Arts. (2011)

**Deyse Bravo-M.L.S., Assistant Professor of Library Science**

B.A., University of California, Berkeley; M.L.S., Queens College. (2011)

**Kevin Brown-Ph.D., Chair and Professor of Mathematics**

B.S., Southern Adventist University; M.S. and Ph.D., University of Central Florida. (1999)

**Genevieve Brown-Kibble-D.M.A., Professor of Music**

B.A., Andrews University; M.Mus., Indiana University; D.M.A., University of Arizona. (2005)

**Rod Bussey-Ph.D., Associate Professor of Physical Education, Health and Wellness**

B.Ed., Union College; M.Ed., Azusa Pacific University; Ph.D., Texas Woman's University. (2013)

**Hendel Butoy-Professor of Visual Art and Design**

**Rachel Byrd-Ph.D., Professor of English**

B.A., Pacific Union College; M.A., Shippensburg University; Ph.D., University of Maryland. (1998)

**Michael Cafferky-D.B.A., Professor of Business and Management**

B.A., Atlantic Union College; M.Div., Andrews University; M.P.H., Loma Linda University; D.B.A., Anderson University. (2003)

**Ray Carson-Ph.D., Chair and Professor of Technology**

B.S. and M.A.Ed., Northern Arizona University; Ph.D., Old Dominion University. (2003)



**Jan Cathey-M.S.T., Associate Professor of Chemistry**

B.S. and M.S.T., Middle Tennessee State University. (2011)

**Ken Caviness-Ph.D., Professor of Physics and Engineering**

B.S., Southern Adventist University; Ph.D., University of Massachusetts at Lowell. (1996)

**Ronda Christman-Ph.D., Assistant Professor of Nursing**

A.S., Southern Adventist University; B.A., M.A., M.S.N., and Ph.D., Andrews University. (2013)

**Robert Coombs-Ph.D., Professor of Psychology**

B.A., Carson-Newman College; M.Div., The Southern Baptist Theological Seminary; D.Min., The Southern Baptist Theological Seminary; Ph.D., The University of Tennessee, Knoxville. (2004)

**Peter J. Cooper-D.M.A., Professor of Music**

B.Mus. and M.Mus., Conservatory of Music, University of Missouri-Kansas City; D.M.A., University of Michigan. (2006)

**Aaron Corbit-B.S., Assistant Professor of Biology**

B.S., Loma Linda University. (2012)

**Stanley Cottrell II- M.L.S., Associate Professor of Library Science**

B.S. and M.A., Andrews University; M.L.S., University of Maryland. (2004)

**Randall Craven-M.F.A., Dean and Associate Professor of Visual Art and Design**

B.A., University of Missouri, Kansas City; M.S.Ed., Southern Adventist University; M.F.A., Savannah College of Arts and Design. (2000)

**Linda Potter Crumley-Ph.D., Dean and Professor of Journalism and Communication**

B.A., Pacific Union College; M.A., University of California; Ph.D., University of Texas. (2004)

**Michael Dant-M.S., Associate Professor of Computing**

B.S. and M.S., Andrews University. (2009)

**Judith Dedeker-M.S.N., Associate Professor of Nursing**

B.S. and M.S.N., Southern Adventist University. (2006)

**Mioara Diaconu-Ph.D., Associate Professor of Social Work**

B.A., Theological Adventist Institute; M.S.A and M.S.W., Andrews University; Ph.D., University of Texas at Arlington. (2012)

**Ardelle Dickinson-Ph.D., Assistant Professor of Counseling**

B.A., Walla Walla University; M.S., Southern Adventist University; Ph.D., Regent University. (2013)

**Lisa Clark Diller-Ph.D., Chair and Professor of History and Political Studies**

B.A., Southern Adventist University; M.A. and Ph.D., University of Chicago. (2002)

**René Drumm-Ph.D., Professor of Social Work**

B.S., Andrews University; M.S.W., Michigan State University; Ph.D., Texas Woman's University. (2003)

**Bonnie Eder-Ed.D., Associate Professor of Education**

B.S., University of Wyoming; M.S., Berry College; E.D.S., University of West Georgia; Ed.D., University of Tennessee, Knoxville. (2011)

**Lynelle Ellis-M.A., Assistant Professor of Journalism and Communication**

B.A., Walla Walla University; M.A., Spring Arbor University. (2009)

**Richard Erickson-M.B.A., Associate Professor of Business and Management**

B.S. and M.B.A., Austin Peay State University. (1984)

**Kris Erskine-Ph.D., Associate Professor of History and Political Studies**

B.A., Newbold College; M.A., Troy State University; M.A., Atlantic Union College; M.S., Syracuse University; Ph.D., University of Hong Kong (2012)

**Pegi Flynt-Ed.D., Director of Online Learning and Associate Professor of Academic Technology**

B.A., Washington Adventist University; M.A.T. Andrews University; Ed.D., Nova Southeastern University. (2007)

**L. Ann Foster-Ph.D., Professor of Biology**

B.S., Southern Adventist University; M.S. and Ph.D., University of North Texas. (1996)

**Bonnie Freeland-D.N.P., Professor of Nursing**

B.S., Southern Adventist University; M.S.N. and D.N.P., University of Tennessee at Chattanooga (1998)

**Ileanna Freeman-Ph.D., Professor of Counseling and Psychology**

B.A. and M.A., Andrews University; Ph.D., Ball State University. (2005)

**Steven French-Psy.D., Associate Professor of Counseling and Psychology**

B.S., Southern Adventist University; M.A., Ball State University; Psy.D., Marshall University. (2012)

**Alfredo Fuentes-Ed.D., Associate Professor of Education**

B.A., Adventist Antillian University; M.A.Ed. and Ed.D., University of Hartford

**H. Robert Gadd-Ph.D., C.P.A., Professor of Business and Management and VandeVere Chair Professor of Accounting**

B.S., Southern Adventist University; M.B.A., University of Maryland at College Park; Ph.D., University of Texas at Arlington. (2000)

**Holly Gadd-Ph.D., Professor of Nursing**

B.S., Andrews University; M.S., Loma Linda University; F.N.P., Midwestern State University Ph.D., Texas Woman's University. (2000)

**Pam Gammenthaler-M.S.N., Associate Professor of Nursing**

R.N. and B.S., Walla Walla University; M.S.N., Loma Linda University. (2006)

**Jeff Gates-Dr.P.H., Professor of Nursing**

B.A., Pacific Union College; M.P.H. and Dr.P.H., Loma Linda University. (2011)

**David George-M.F.A., Associate Professor of Visual Art and Design**

B.A., Southern Adventist University; M.F.A., Savannah College of Art and Design. (1999)

**Cynthia Gettys-Ph.D., Professor**

B.A., Andrews University; M.A., Western Carolina University; Ph.D., University of Tennessee, Knoxville. (2013)

**Judith Glass-M.Mus., Professor of Music**

B.Mus. and M.Mus., University of Texas, Austin. (1975)

**Kathy Goddard-M.A., Associate Professor of English**

B.S., Andrews University; M.A., John Hopkins University. (2010)

**Lisa S. Goolsby-M.B.A., Associate Professor of Business and Management**

B.B.A., La Sierra University; M.B.A., Indiana Wesleyan University. (2008)

**Zachary Gray-M.F.A., Associate Professor of Visual Art and Design**

B.S., Southern Adventist University; M.F.A., Savannah College of Art and Design. (2000)

**Norman Gulley-Ph.D., Research Professor of Religion**

Diploma in Theology, Newbold College; B.A., Southern Adventist University; M.A. and M.Div., Andrews University; Ph.D., University of Edinburgh (Scotland). (1978)

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# 2014-15 University Committees

## Administrative Committees

Administrative Council: Gordon Bietz, Chair

- Audio-Visual Services Committee: Volker Henning, Chair
- Employee Wellness Committee: Bob Bengé, Chair
- Environmental Sustainability Committee: Crystal Stitzer, Chair
- Financial Appeals Committee: Marc Grundy, Chair
- Fund Raising Committee: Chris Carey, Chair
- Human Resources Committee: Tom Verrill, Chair; Brenda Flores-Lopez, Associate Chair
- Key Committee: Kevin Penrod, Chair
- Naming Committee:           Chair
- New Student Orientation Committee: Renita Klischies, Chair
- Planned Giving Committee: Chris Carey, Chair; Tom Verrill, Vice Chair
- Promotional Tours Committee: Vinita Sauder, Chair
- Public Art Committee:           , Chair
- Safety/Risk Control Committee: Tom Verrill, Chair; Kevin Penrod, Vice Chair
  - EPA and OSHA Compliance Audit Team: Crystal Stitzer, Chair
- Traffic Appeals Committee: Kevin Penrod, Chair
- University Archives and Records Committee:           , Chair
- Web Oversight Committee: Ingrid Skantz, Chair

## Other Committees

- Assessment and Effectiveness Review Committee: Hollis James, Chair
  - Retention Committee: Vinita Sauder, Chair
- Financial Statement Review: Tom Verrill, Chair
- Crisis Management Team: Gordon Bietz, Chair
- Diversity Committee:           , Chair
- Faculty Affairs Committee: Kevin Brown, Chair
- Faculty Promotions Committee: Robert Young, Chair
- Grievance Committee: Stephen Bauer, Chair
- Honorary Degrees Committee: Robert Young, Chair
- Sabbatical Subcommittee: Robert Young, Chair
- Social/Recreation Committee: Tricia Foster, Chair
- Strategic Planning and Budget Committee: Gordon Bietz, Chair; Vinita Sauder, Vice Chair

## University Senate Committees

- University Senate: Bob Bengé, Chair
- University Senate Executive Committee: Bob Bengé, Chair

### **Academic Committees:**

- Graduate Council: Carleton Swafford, Chair
- Distance Education Committee: Volker Henning, Chair; Carleton Swafford, Co-Chair
- Academic Research Committee: Harold Mayer, Chair
- Institutional Review Board: \_\_\_\_\_, Chair
- Undergraduate Council: Robert Young, Chair
  - Academic Review Subcommittee: Volker Henning, Chair
  - Admissions Subcommittee: Marc Grundy, Chair; Volker Henning, Vice Chair
  - Advisement Subcommittee: Sharon Rogers, Chair
  - General Education Subcommittee: Scot Anderson, Chair
    - Honors Subcommittee (Southern Scholars): Mark Peach, Chair
    - Writing Subcommittee: Amanda Livanos, Chair

### **Student Services Committees:**

- Discipline Review Committee: Kari Shultz, Chair
- Student Support Team: Januwoina Nixon, Chair
- Student Personnel Committee: \_\_\_\_\_, Chair
- Student Services Committee: \_\_\_\_\_, Chair
  - Disabilities Services Subcommittee: Sheila Smith, Chair
  - Film Subcommittee:
  - International Student Subcommittee: Liane de Souza, Chair
  - Screening Subcommittee: Laurie Minner, Chair
  - Spiritual Life Subcommittee: Brennon Kirstein, Chair
  - Student Activities Subcommittee: Kari Shultz, Chair
  - Student Media Board: Stephen Ruf, Chair
  - Student Wellness Subcommittee: Rod Bussey, Chair

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