



# Undergraduate Catalog

2009-2010



**SOUTHERN**  
ADVENTIST UNIVERSITY

**Power for Mind & Soul**

# Southern Adventist University

## 2009-2010 Catalog

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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.

## 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*.

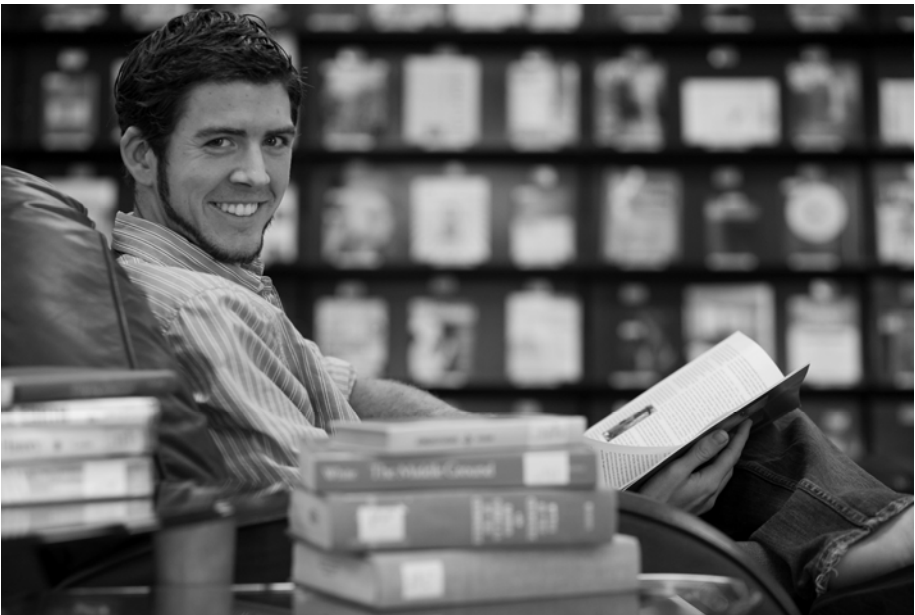
Two important parts of your academic life are General Education and your field of concentration. You will find it especially valuable to read carefully the sections of the *Catalog* that explain these programs.

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 advisor. 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 Associate Vice President of Enrollment Services or the Assistant Directors 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.

Do not lose this *Catalog*. It is your “university manual.”



# Contents

Academic Calendar.....	4
This is Southern Adventist University.....	6
Admissions.....	11
Student Life and Services.....	18
Academic Enrichment Services.....	24
Academic Policies.....	28
Financing Your Education.....	53
Degrees and Curricula.....	77
Allied Health.....	85
Biology.....	95
School of Business and Management.....	98
Chemistry.....	108
School of Computing.....	111
School of Education and Psychology.....	115
Engineering Studies.....	132
English.....	133
History.....	136
Interdisciplinary.....	140
School of Journalism and Communication.....	142
Mathematics.....	151
Modern Languages.....	153
School of Music.....	160
School of Nursing.....	168
School of Physical Education, Health and Wellness.....	175
Physics.....	180
School of Religion.....	183
Social Work and Family Studies.....	197
Technology.....	203
School of Visual Art and Design.....	207
Interdepartmental Programs.....	216
Bachelor of Science in Medical Science.....	216
Associate of Arts Degree in General Studies.....	217
Associate of Science Degree in General Studies.....	217
Non-Degree Preprofessional Programs.....	218
Anesthesia (CRNA).....	218
Dentistry.....	218
Law.....	219
Medicine.....	220
Optometry.....	221
Osteopathic Medicine.....	221
Pharmacy.....	222
Podiatric Medicine.....	223
Pre-Physician Assistant.....	223
Veterinary Medicine.....	224
Course Descriptions.....	225
Index.....	363

# Academic Calendar

## 2009-10 School Year

The Southern Adventist University summer term consists of three sessions. Students in attendance during the 2008-09 school year may register at any time during the week immediately preceding the session.

### 1st Summer Session, 2009

May 4	Registration
May 4	Classes Begin
May 5	Late Registration Fee
May 6	Last Day to Add a Course/Fee for Class Change
May 15	Last Day to Drop and Automatically Receive a "W"
May 22	All Withdrawals After This Date Receive "F"
May 29	Classes End

### 2nd Summer Session, 2009

Jun 1	Registration
Jun 1	Classes Begin
Jun 2	Late Registration Fee
Jun 3	Last Day to Add a Course/Fee for Class Change
Jun 12	Last Day to Drop and Automatically Receive a "W"
Jun 19	All Withdrawals After This Date Receive "F"
Jun 29	Registration
Jun 29	Classes Begin
Jun 30	Late Registration Fee
Jul 1	Last Day to Add a Course/Fee for Class Change
Jul 10	Last Day to Drop and Automatically Receive a "W"
Jul 17	All Withdrawals After This Date Receive "F"
Jul 24	Classes End

### 3rd Summer Session (SmartStart), 2009

Jul 1	Online Registration Opens for Fall 2009
Jul	JumpStart Enrollment Services, 12:00 - 2:00 p.m.
Jul	Registration for BIOL 101, 225
Jul 19	Classes Begin in BIOL 101, 225
Jul 26	SmartStart Enrollment Services, 9:00 a.m. - 2:00 p.m.
Jul 27	Classes Begin
Jul 28	Late Registration Fee
Jul 29	Last Day to Add a Course/Fee for Class Change
Aug 7	Last Day to Drop and Automatically Receive a "W"
Aug 14	All Withdrawals After This Date Receive "F"
Aug 21	Classes End

### 1st Semester

Aug 10	ACT Exam, 1:00 p.m.
Aug 13	ACT Exam, 1:00 p.m.
Aug 18-26	University Colloquium
Aug 23-26	Freshman Orientation

Aug 24-26	Registration for Non-registered Students
Aug 27	Classes Begin
Aug 27	Late Registration Fee
Sep 4	Fee for Class Change and "W" Show on Transcript
Sep 10	Last Day to Add a Class
Sep 21-23	View Southern
Oct 21	Mid-term Ends
Oct 22-25	Mid-semester Break
Oct 29-Nov 1	Alumni Homecoming
Oct 30	Deadline to request Dec/May Graduation at Records Office
Nov 5	Last Day to Drop and Automatically Receive a "W"
Nov 6	Withdrawals through Dec 4 receive W or WF
Nov 10,11	Seniors Pre-Registration>93 hours
Nov 12,13	Juniors Pre-Registration>54 hours
Nov 16,17	Sophomores Pre-Registration>23 hours
Nov 18-20	Freshmen Pre-Registration<24 hours
Nov 17	Senior Class Organization
Nov 25-29	Thanksgiving Vacation
Nov 30-Jan 12	Online Registration opens for New/Transfer Students
Dec 4	All Withdrawals After This Date Receive an "F"
Dec 13-16	Semester Exams
Dec 16	Commencement, 7:00 p.m.
Dec 17-Jan 4	Christmas Vacation
Dec 24-Jan 1	Wright Hall Closed

## 2nd Semester

Jan 3	Enrollment Activities for New Students, 12:00-2:00 p.m. Wright Hall
Jan 4	Enrollment Activities for New Students, 8:30 a.m.-4:30 p.m. Wright Hall
Jan 5	Classes Begin
Jan 5	Late Registration Fee
Jan 13	Fee for Class Change and "W" Show on Transcript
Jan 18	Martin Luther King, Jr. Day/No Class/Community Service Day
Jan 19	Last Day to Add a Class
Feb 25	Mid-term Ends
Feb 26-Mar 7	Spring Break
Mar 19	Last Day to Drop and Automatically Receive a "W"
Mar 23,24	Senior Pre-Registration>93 hours
Mar 25,26	Junior Pre-Registration>54 hours
Mar 29,30	Sophomores Pre-Registration>23 hours
Mar 29	Senior Deadline for Correspondence/Incompletes/Homes Study
Mar 31-Apr 2	Freshman Pre-Registration<24 hours
Apr 16	All Withdrawals After This Date Receive "F"
Apr 25-28	Semester Exams
May 2	Commencement/Semester Ends

## May 3-Aug 20 Summer Sessions 2010

## This is Southern Adventist University

Southern Adventist University is a co-educational institution established by the Seventh-day Adventist Church, offering master's, baccalaureate, and 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**

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.



## 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.

## 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 Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097, telephone number 404.679.4501) to award one-year certificates, associate degrees, baccalaureate degrees and master’s degrees. It is also accredited by the Accrediting Association of Seventh-day Adventist Schools, Colleges, and Universities.

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, Computer Information Systems, 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 teacher education program is accredited by the National Council for Accreditation of Teacher Education. 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 National League for Nursing Accrediting Commission (61 Broadway, New York, NY 10006, telephone number, 212.363.5555 ext. 153). 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 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 8 master's degree programs with 23 emphases, 60 baccalaureate degree majors, 50 minors, 18 associate degree majors, and 1 one-year certificate. Additional preprofessional and terminal curricula are available to students seeking admission to professional schools. (See "Degrees and Curricula," page 77). 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 on-line 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**

Sixty 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 50 foreign countries are also represented. There are a few more women than men.

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, Journalism and Communication, WSMC FM90.5  
 Daniells Hall—Social Work and Family Studies  
 Hackman Hall—Religion  
 Hickman Science Center—Biology, Chemistry, Computing, Mathematics, Physics  
 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  
 Mazie Herin Hall—Nursing  
 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, Teaching Material Centers, 21st Century Classroom  
 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 foods  
 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 fields  
 Southern Village—student housing  
 Arthur W. Spalding Elementary School—laboratory school  
 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

## 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\*

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, including Griggs University and International Academy, with a grade point average (GPA) of at least 2.25 (on a 4.00 scale) in major subjects,\*\* and have a minimum composite score of 18 on the American College Test (ACT) or a minimum of 870 (excluding the writing section) on the Scholastic Aptitude Test (SAT).
2. Pass the General Education Development (GED) test with a minimum score of 410 on each section and an average of 450 overall (or 2250 total standard score points) and have a composite score of 18 on the ACT or a minimum of 870 (excluding the writing section) on the SAT. 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 their high school education in a home school setting must have an ACT minimum composite test score of 18, or an SAT score of 870 (excluding the writing section), and submit a portfolio, which must include 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, 2006, B+, 1 unit". The home school transcript must show the graduation date and be signed and dated by one of the parents.
  - A copy of an original research paper.
  - 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 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 July 20, 2009. 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 2009 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 2009 semester as a student in good academic standing.
4. 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 2009 semester reviewed by the Academic Review Committee for a final admissions decision.
5. Those that receive an “F” in the three-hour SmartStart class or the APT class will be academically dismissed prior to the fall 2009 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. If one of these two units is not World History, HIST 174, 175, 364, 365, 374, 375, 386, 387 or 388 must be taken as part of the General Education requirements.
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**

#### **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 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 A, C, D, E (see *Catalog* under Academic Policies, General Education), may

exempt themselves 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* on page 48). 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 2009* guide. Transfer courses that are comparable to Southern Adventist University courses may be recorded with an earned grade of “C-“. 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 credential foreign evaluator. As a general rule, accredited institution credit is 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 register 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**

In addition to meeting the freshman or transfer acceptance criteria, an international student must send official copies of all credits, degrees, diplomas and other credentials, with validation by school or national officials. These should be in the original language,

accompanied by a translation (not an interpretation) in English, and certified by an American Embassy official if possible.

The deadline for international student applications to be received by the Enrollment Services Office is June 30 for the fall registration, and October 30 for the winter registration.

Students from countries which administer the G.C.E. (General Certificate of Education) examinations must have earned five (5) or more "O" level academic subject passes (generally at one sitting, with marks 1 through 6 or A through D). Subjects must include English, a natural science, and three others selected from a second language, mathematics, science, and social studies. 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) or the TOEFL Paper-Based Test (PBT). Students whose TOEFL (IBT) score is 79 (PBT 550) or higher meet the official admission level.

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 page 135 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
- 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 must be members of the 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](http://www.southern.edu).



- Completed applications should be returned to the Enrollment Services Office with an application fee of \$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.**

### **When to Apply or Reapply**

Southern gives acceptance priority to those that submit their application no later than March 31. Applications received after March 31 will be processed on a space availability basis.

All new and transfer students who have received academic acceptance will be mailed a Commitment Deposit Card. This card must be completed and returned to the Enrollment Services Office with a \$250 Commitment Deposit. Deadlines are July 1 for the fall semester and November 16 for the winter semester. The \$250 is not an additional fee, it will be used as the housing deposit unless the student will not be in university housing. For those not in university housing, the \$250 will be applied to the student's account. The Commitment Deposit is refundable until the deadlines. After that date, the student will forfeit the deposit. The Commitment Deposit is required of any new or transfer student seeking enrollment regardless of housing status (residence hall or community).

### **Admission to Graduate Programs**

For information on graduate programs or a copy of the *Graduate Catalog*, please contact the Dean of Graduate Studies at 423.236.2864.

The degrees offered are:

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

*Master of Business Administration*

- Accounting
- Church and Nonprofit Leadership
- Healthcare Administration (available online)
- Management (available online)
- Marketing Management

*Dual Degree—MSN and MBA (MBA component available online)*

*Master of Financial Management*

*Master of Science in Administration*

- Church Administration
- Outdoor Education

**School of Education and Psychology***Master of Science*

Clinical Mental Health Counseling  
School Counseling

*Master of Science in Education*

Curriculum and Instruction  
Educational Administration and Supervision  
Inclusive Education (available online)  
Literacy Education  
Outdoor Teacher Education (available online with intensive field sessions)

**School of Nursing***Master of Science in Nursing*

Acute Care Nurse Practitioner  
Adult Nurse Practitioner  
Family Nurse Practitioner  
Nurse Educator

*Accelerated RN to MSN*

Acute Care Nurse Practitioner  
Adult Nurse Practitioner  
Family Nurse Practitioner  
Nurse Educator

*Accelerated RN to MSN and MBA (MBA available online)**Dual Degree—MSN and MBA (MBA available online)**Post Master's Certificate*

Acute Care Nurse Practitioner  
Adult Nurse Practitioner  
Family Nurse Practitioner  
Nurse Educator

**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

## 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 Student Missions, We-Pods (small groups), BLU Sauce (Building Loving Unity—SAU Community Experience), 12+ Chattanooga Outreach Ministries, Wellness, Destiny Drama Company, and offer numerous religious programs (vespers, weeks of prayer, intents, encounters weekends).

Southern Adventist University enjoys a reputation of having 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, or any situation in

which students desire personal and professional counseling. 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's Office provides various premarital inventories and counseling programs 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 weekend 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 advisor 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, advisement for international students, 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 Special Needs**

Students with disabilities that could impact their learning experiences at Southern must contact Disability Support Services (DSS), by phone at 423.236.2574 or in person, to schedule an appointment with the Disability Services Coordinator if they want to request accommodations. DSS is located on the third floor of Lynn Wood Hall in the Student Success Center. It is expected that students with disabilities will make this contact during the first three weeks of the semester. Otherwise, the process of certifying eligibility and arranging for reasonable accommodations will probably not be completed in time to meet their needs before mid-term. Students who contact DSS after the first month of the semester should 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 of identifying students who qualify for accommodations or special services. The student must 1) voluntarily (and confidentially) identify to the Disability Services Coordinator as having a qualifying disability and 2) provide appropriate documentation to be certified to receive accommodations.

Details about services as well as the requirements and processes involved in qualifying for accommodations at Southern, can be found at <http://dss.southern.edu>.

## **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.

Orientation for new students is held prior to the fall term. It includes examinations and instruction helpful in course planning. 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 freshman 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.

## **Risk Management**

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. This requirement can be met by (a) enrolling in the student insurance plan, or (b) waiving the student insurance plan by providing information regarding coverage from another policy or health care plan. All students living in a residence hall or other student housing must purchase the student insurance plan unless waiving the coverage. A student taking six hours or more who has not provided proof of other coverage will be automatically enrolled in this insurance plan at registration.

A policy brochure describing benefits, terms, and limits is available from the Risk Management department. The waiver is valid for one year and is only effective upon providing evidence of other coverage.

## **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 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 nurse practitioner under the supervision of a physician/physician assistant. The Health Center is open during regular university working hours. To maximize healthcare for all students it is the normal procedure for students to be seen at the Health Center. Registered nurses are on-call for urgent needs when the Health Center is not open.

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

Visits for minor illnesses or injuries, wound care, blood pressure checks, and equipment loans are free. Visits requiring prescriptions or expanded medical care, physicals, lab tests, immunizations, and medications or supplies will have a charge. The Health Center will bill the school insurance but the students should plan to file their own private insurance. Charges from the Health Center may be placed on the student's account. For further details, consult the *Student Handbook*.



## **Academic Enrichment Services**

### **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* on page 20.

## **Libraries**

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

The [library.southern.edu](http://library.southern.edu) page provides access to an array of full-text databases, indexes and e-books as well as peer-reviewed journals, serials and a selection of audio-visual materials. Patrons utilize the library catalog to find books, submit Interlibrary Loan (ILL) requests to order items not available on site, schedule consultations with librarians, reserve study rooms, renew loans, view tutorials and floor plans, access e-reserve items, or 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 or borrow one of twenty wireless-enabled laptops, have a group study session in one of the study rooms, attend an information literacy session or get help at the Writing Center on the lower 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 which 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. The station regularly hires between 10 and 15 students as on-air announcers, production, and development 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 Public Radio International, National Public Radio, and American Public Media, as well as news from the BBC.

WSMC's broadcast studios are located in Brock Hall. The facility includes a studio-quality production room, news room, music library, and on-air studios.

## Academic Policies

### 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 the advisor or other faculty members during the summer months before the beginning of the fall term. Students planning to enter preprofessional programs should consult the advisor, 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 by writing to the respective graduate school or to the Graduate Dean's office. Master's degrees are available in the fields of Business, Counseling, Education, Nursing, and Religion.

### 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.

\*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: Baccalaureate, continued**

- 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.

### **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.

## 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.

## 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 made 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 30 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 30 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.

## 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 A, Academic, Communication, and Computer Skills, of General Education must be met before enrollment in upper division classes.**

## General Education

General education is an important part of the student's experience at Southern Adventist University. The general education structure is designed to provide the student opportunity to develop those values and competencies that mark an educated person and prepare him or her for leadership in today's complex society. While recognizing the validity of many different general education programs, the faculty of SAU have designed the following sequence that provides development of academic skills and opportunities for self-fulfillment and conveys basic values of both the Seventh-day Adventist Church and western civilization. Students may exercise considerable latitude when selecting courses to comply with General Education requirements.

**As a requirement of graduation, all associate and baccalaureate seniors must take a SAU specified standardized test that measures general education proficiencies in the fall semester of their senior year.**

**Writing Across the Curriculum:** The Writing Across the Curriculum program at Southern Adventist University is one of the longest-running programs of its kind in the nation. The goal of the program is to assist students in developing writing skills suitable to various disciplines. Such skills will also make students more competitive in the job market. Thus, candidates for the bachelor's degree must complete three writing-emphasis classes as outlined in the General Education requirements. These classes are carefully tailored to emphasize personal growth in writing skills through both spontaneous and planned writing exercises. Students should also expect writing requirements in courses other than those designated as writing-emphasis courses.

**Community Service:** Promotion of voluntary, unselfish service to mankind is a thread that runs through all programs of study at Southern Adventist University. Volunteerism, however, cannot be mandated. It can only be encouraged. Students at Southern are encouraged to volunteer for community service through government, philanthropic, cultural, political, church, medical, educational, environmental, and other organizations and agencies or through individual projects. Based on nominations from each academic department/school, Community Service Awards are presented each year at the annual Awards Convocation to students who have made an exceptional contribution of time and effort in serving others.



## **Area A. Academic, Communication, and Computer Skills**

A graduate of Southern Adventist University can use the skills of reading, writing, mathematics, oral communication and basic computing skills.

Underlying all General Education requirements are the basic academic skills of English and mathematics. It is important for a graduate to be able to discern an author's organization, arguments, and supports, and to write coherently, fluently, and grammatically.

Graduates need numeric and symbolic computation skills to function successfully in our scientific and technological society.

All English Composition and mathematics requirements in Area A must be completed before upper division work is undertaken. Upper division transfer students may take Area A requirements concurrently with upper division classes.

### **1. English**

ENGL 101 and 102 are required for both the associate and bachelor's degrees. A student with an ACT English score below 18, an SAT language score below 450, or a TOEFL score below 550 (an IBT TOEFL score of 79) may not take ENGL 101. The English Department recommends completing ENGL 100 or an EESL class before retaking the ACT, SAT, or TOEFL. However, passing ENGL 100 or an EESL class is not a substitute for a passing score on the examination.

### **2. Mathematics**

Students with a Mathematics ACT score below 22 must take one mathematics course (100 level or above). MATH 080 is required of all students who meet neither of the following criteria: 1) ACT Mathematics score of 16 or above, 2) Completion of high school Algebra II with a grade of C or better. 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.

### **3. 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.

### **4. Basic Computer Competencies**

Southern Adventist University defines computer competencies as including both concept-based competencies and skill-based competencies.

All students must demonstrate the concept-based computer competencies by:

- Taking or challenging CPT 100 which is offered in the classroom and online.  
OR
- Passing the Concept-Based Computer Competency Exam administered by the School of Computing.  
OR
- Taking BUAD 317, CPTR 103, or EDUC 319.

All students must demonstrate skill-based computer competencies by:

- Taking or challenging two hours or more in computer skill building courses that cover different application areas.  
OR
- Passing two different Skill-Based Computer Competency Exams administrated by the School of Computing.  
OR
- A combination of the above.
- The computer skill building courses are CPT 105, 106, 107 109, 110; ARTG 115 and BUAD 104 (covers 3 skilled-base areas) BUAD 105; EDUC 319; MUED 250; NRS 240; TECH 248.

**5. Oral Communication**

To meet speaking and listening competencies, students are required to take COMM 135, Introduction to Public Speaking.

Degree programs with alternate requirements approved by the Oral Communication Committee and meeting the criteria for quality oral communication experiences and competencies set by the University for minimum general education and accreditation standards are B.S.W. Social Work, B.S. Family Studies, and B.A. History.

**6. Southern Connections**

All first-time freshmen in the first semester of residence are required to take NOND 101.

<b>Area A Total</b>	<b>Associate</b>	<b>Bachelor's</b>
English	6-9	6-9
Mathematics	0-3	0-3
Basic Computer	3	3
Oral Communication	3	3
Southern Connections	1	1

**Area B. Religion**

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 12 hours of Religion and include one upper-division class. Transfer students must Take 3 hours at an accredited SDA college or university for each year or part thereof in attendance at an SDA college or university with a minimum of 6 hours.

**1. Biblical Studies**

All RELB courses.

**2. Religion and Theology Studies**

All RELT courses.

**3. Professional Studies**

One course may be chosen from RELP 240/340, 251, 264, 361, 362, 450, or 468.

<b>Area B Total</b>	<b>Associate</b>	<b>Bachelor's</b>
	6	12

### Area C. History, Political, and Economic Systems

A graduate of Southern Adventist University has knowledge of history and the skill to analyze political and economic systems. It is essential that one have an historical perspective in a society that allows its members a voice in shaping its political, social, and economic institutions. CLEP exam credit for history will only be accepted for three of the six hours required for a bachelor's level degree. Students with less than one secondary school credit for World History must include one of the following:

HIST 174, 175, 364, 365, 374, 375, 386, 387 or 388.

#### 1. History

HMNT 210 and all HIST courses except 145, 490, and 497.

#### 2. Political and Economic Systems

All PLSC courses; HMNT 215/415; ECON 213, 224, 225.

[Students studying for licensure in elementary education may take GEOG 204 for C-2 credit.]

Area C Total	Associate	Bachelor's
History	3	6
PLSC/ECON	0	3

### Area D. Language, Literature, Fine Arts

A graduate of Southern Adventist University can recognize the impact of arts and humanities on life and integrate such knowledge into personal experience.

Language, literature, and the fine arts convey ideas, values, and emotions. An acquaintance with these modes of communication enhances the ability to express oneself and fosters an appreciation of the cultural heritage of world civilization and the complexities of human existence.

Bachelor's degree students must include at least 3 hours in two sub-areas. 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 the elementary level of a foreign language. Students seeking a Bachelor of Arts degree must check with their School/Department prior to taking ASL 207-208.

#### 1. Foreign Language

ASL 101-102; FREN 101-102, 207-208; GRMN 101-102, 207-208; ITAL 101-102, ITAL 207-208; MDLG 265; RELL 181-182, 191-192; RUSS 101-102, 207-208; SPAN 101-102, 207-208, 243.

#### 2. Literature

All literature courses offered either by the English Department, Modern Languages Department, and COMM 326.

#### 3. Music and Art Appreciation

ARTH 218/318, 342, 344, 345, 349; HMNT 205; MUCH 216; MUHL 115, 118, 120, 320, 321, 322, 323.

Area D Total	Associate	Bachelor's
	3	6

**Area E. Natural Science**

A graduate of Southern Adventist University comprehends the basic concepts of science and can apply the scientific method to problem solving.

A study of the sciences develops an inquiring attitude toward one's environment. It provides individuals with empirical and rational methods of inquiry and an awareness of both the potential and the limitations of pure and applied science in solving problems.

Bachelor's degree students must take at least 3 hours from each of 2 sub-areas or complete a science sequence course. Only one of the following may apply: BIOL 424, PHYS 317.

Students who have less than two secondary school units in science must take 3 hours of science above the usual requirements; e.g. associate degree students must take 6 hours and bachelor's degree students must take 9 hours.

Southern Scholars must take a sequence of two classes from the same department. See the "Honors Studies Sequence" section on page 37 of the *Catalog* for clarification.

- 1. Biology**  
BIOL 101-102, 103, 161-162, 225, 250, 252, 314, 421, 424.
- 2. Chemistry**  
CHEM 107, 111-112, 113-114, 151-152.
- 3. Physics**  
PHYS 127, 128, 155, 211-212, 213-214, 317.
- 4. Earth Science**  
ERSC 105.

<b>Area E Totals</b>	<b>Associate</b>	<b>Bachelor's</b>
	3-6	6-9

**Area F. Behavioral, Family, Health Sciences**

A graduate of Southern Adventist University will have a knowledge of and be able to apply the dynamics of personal relationships, social interaction, and healthful living toward effective service.

The basic social units significantly shape people's lives, and a knowledge of their workings is necessary to understand ourselves and others.

Bachelor's degree students must include at least 2 hours in 2 of the following sub-areas:

- 1. Social Work and Family Studies**  
PSYC 101, 122, 128, 224, 231, 233, 249, 349, 416; SOCW 150, 211, 212, 230, 233, 249 265/465, 296/496; EDUC 217, 220; all SOCI courses except 201, 225, 245, 360, 365.
- 2. Family Science**  
BUAD 128; SOCI 201, 225, 233, 365; SOCW 201, 225, 233, 365; PSYC 233.
- 3. Health Science**  
HLED 173; HLNT 135; NRNT 125.

<b>Area F Total</b>	<b>Associate</b>	<b>Bachelor's</b>
	2	5

## Area G. Activity Skills

A graduate of Southern Adventist University will understand how to live a balanced life by following the principles of wellness and using leisure time wisely. The Seventh-day Adventist philosophy stresses the balanced development of the whole person. Toward this goal, education in the use of leisure time is important, particularly in recreational, creative, and practical skills. Three hours are required for both the associate and bachelor's degrees. Two of these hours are PEAC 225 and one PEAC activity course. The third hour may be from creative, practical, or recreational skills.

### 1. Creative Skills

All MUPF courses; ART 101,104-105, 109-110, 221-222, 223, 235, 300, 310; ENGL 312, 313, 314; JOUR 315; PHTO 125, 315.

[Students studying for licensure in elementary education may take ART 230 for G-1 credit.]

### 2. Practical Skills

ACCT 103, 221-222; ARTG 210; BUAD 126; COMM 103; CPTR 124, ENGR 149; JOUR 105, 205;

All TECH LD courses except TECH 278.

### 3. Recreational Skills

PEAC 225 is required for both the associate and the bachelor's degrees. An additional PEAC course is required for the bachelor's degree. Optional pass/fail grading is available for all PEAC courses except 225.

Area G Total	Associate	Bachelor's
	3	3

## Southern Scholars (Honors Program):

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.

Eligible students will be invited to become Southern Scholars. Freshmen are eligible if they have a high school GPA of 3.70 or higher. Other students must 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.

To continue as Southern Scholars, students must complete a minimum of twelve credits each semester and thirty-one credits each calendar year. They must also enroll in appropriate honors sequence courses, receive a B (3.00) average or higher in the honors sequence courses and maintain a minimum cumulative GPA of 3.50. All honors students are expected to graduate within a four-year period unless extenuating circumstances justify an extension by the honors committee.

Ordinarily, all courses of the honors sequence must be taken in residence. Limited exceptions may be made by the honors committee in the case of transfer students. 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.

After completing one year in the honors program, Southern Scholars may receive a waiver for the cost of auditing one class each semester that they remain in the program. Once having earned junior status and having finished one year in the program, Southern Scholars will receive a tuition refund equivalent to one three-hour class for the last four semesters if they are enrolled full-time. The “per hour” rate for a 16-hour class load will be the basis for calculating the refund. Southern Scholars also receive a 100 percent tuition waiver for Honors Seminar, HMNT 451 and 452. Refer to the Southern Scholars Honors Program scholarship in the Financial Aid Available section of this *Catalog*.

## Honors Studies Sequence

### 1. General Education

- Honors students must meet regular General Education requirements with the following stipulations:
- Area B-2. One of the following courses must be selected: RELT 317, 421, 458, or 467.
- Area D-1. Foreign language competency must be attained at the intermediate level.
- Area D-2. ELIT 445 must be selected.
- Area D-3. HMNT 205 must be selected.
- Area E. MATH 181 or MATH 215 and one of the following science sequences must be selected: BIOL 161-162; CHEM 151-152; PHYS 211-212 with PHYS 213-214.

### 2. Honors Seminar

HMNT 451, 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 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 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

## 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.

## 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. Registration is complete only after the advisor has given approval online. 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. Students failing to register during the scheduled registration periods will be charged a late registration fee. 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 advisor 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 two weeks after midterm and receive a grade of "W" automatically. A student withdrawing from a class after that date and up to two weeks before the last day of classes will be assigned a grade of "W" or "WF" by the professor. The grade for any withdrawal during the final two weeks of the semester will automatically be "F."

**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 advisors 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.

## Course Load

University courses are expressed in semester hours. A semester hour typically consists of one fifty-minute class period per week for one semester. Thus, two-semester-hour classes meet two hours a week and three-semester-hour classes meet three hours a week. 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. For every semester hour of credit a minimum of fifteen contact hours should be scheduled. Final exam periods may count as one contact hour. Students should expect to study up to two hours outside of class for each fifty- minute period the class meets. Ideally, a sixteen-semester-hour class load should require up to 32 hours of study each week by the student. 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 qualify for 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.** 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 advisor 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

## Academic Advisement

Southern Adventist University is committed to assist every student in the area of academic advisement. Full-time students are assigned an academic advisor from their major field and are required to consult with their advisors 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 advisors, and print a degree audit from the web. In the event of a discrepancy between an advisor'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://records.southern.edu>. 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
- WF Withdrew Failing;** calculated as an "F" 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. Students who are eligible for an incomplete must secure from the Records and Advisement Office the proper form and file the application with the professor to receive an incomplete. Any 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. No course may be repeated more than twice without permission from the office of the Vice President for Academic Administration.

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	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
WF	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 SAU 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://records.southern.edu>. 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 the Academic Administration office. After two reported incidents of academic dishonesty, the Associate Vice President will notify the dean or chair of the student's major. 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.\* There is an additional cost of \$692 beyond the flat rate fee.

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:

CREDIT HOURS	ATTEMPTED CUMULATIVE GRADE POINT AVERAGE
0 - 23	1.50 or above
24-54	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 page 63, "Academic Progress Requirements."

## 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 <http://records.southern.edu>

## 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.

## 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 \$65 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.

## 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.

## English as a Second Language

Southern Adventist University offers a program in English as a Second Language for Intermediate and Advanced level students whose English language skills are below the



official admission level of the TOEFL score of 550. For details, see the Admissions and English Department sections of the *Catalog*.

## 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 three or better.

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. 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, 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 the Academic Affairs Committee.

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, a department of Home Study International, Silver Spring, MD, 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.

### **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 transferrable 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 transferrable 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 senior class with a grade point average of 3.00 or above during the years of their secondary education.

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

Southern Adventist University will bill each academy for its extension classes at the rate of ten percent of the current tuition credit hour rate.

## 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.

## Transcripts

Students may obtain transcripts of their academic record upon written request made by fax or letter to the Office of Records and Advisement. This request must include a handwritten signature as electronic generated signatures are unacceptable. Requests made by telephone, E-mail, or third party cannot be honored. Official transcripts given directly to a student will be enclosed in a sealed envelope with the registrar's signature across the back. Transcripts will be issued for those students whose accounts are current or paid in full and who are current in re-payment of student loans.

Allow five to seven days for regular processing and mailed first class. Transcripts are free except for the following services:

- Each additional five copies per single request is \$10
- Rush service (picked up or mailed first class within 48 hours) is \$10
- FedEx Service (sent out within 48 hours) is \$25

After the transcript is cleared by Student Finance, payment for special services may be made by credit/debit card, cash, money order or cashiers check. No personal checks will be accepted.

A student may receive an unofficial transcript for evaluative purposes by applying in person or by fax with the Records and Advisement Office. Services of international faxing will cost \$15. For further clarification regarding transcripts, diplomas, and test scores see page 76.

A faxed unofficial transcript may be received in an open area and may be seen by persons other than for whom it was intended. Your signature signifies that you release Southern Adventist University of all responsibility for confidentiality of your academic record when it is faxed to the number you state on the request.

## 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 101-102. 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, 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 106. Survey of Mathematics I (A-2)] 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].

# Financing Your Education

## Enrollment Services Mission Statement

The Enrollment Services Office will make every effort to contact, recruit, enroll and financially work together with academically qualified students who commit themselves 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) or 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 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

### Scholarships

#### Freshman Academic Scholarship

Southern Adventist University offers students a variety of opportunities to receive scholarships and awards.

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

*\*To convert an SAT score to an ACT score. Call 1.800.SOUTHERN for an Enrollment Counselor.*

*Use this Points Formula to calculate eligibility for the Freshman Academic Scholarship:*

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

**Step Two.** Take ACT\* test score and multiply by 100 \_\_\_\_\_ Points

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

FRESHMAN SCHOLARSHIP AMOUNT	SCHOLARSHIP	TOTAL POINTS
\$2,000	Honors Scholarship	4,800 - 5,700
\$4,000	Dean's Scholarship	5,701 - 6,600
\$6,000	Presidential Scholarship	6,601 - 7,300
Full Tuition	Full Tuition Scholarship	7,301 & higher

### **Freshman Leadership Scholarship**

Students who have served in the following leadership positions during their senior year may qualify for a \$2,500 freshman leadership scholarship: Student Association President, Student Association Pastor, Senior Class President, Senior Class Vice President, Senior Class Pastor, Senior Class Social Activities Director.

### **Freshman Florida/Georgia State Scholarship Replacement**

Students from Florida and Georgia, who typically qualify for state scholarship assistance to enter college, will be awarded \$3,000 for the freshman year as a state scholarship replacement. 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.

### **Freshman Lightbearer Scholarship**

Students who have graduated from a public high school, home school, or a private high school not run by an Adventist organization, and who have attended for two or more years, may qualify for a \$2,000 freshman lightbearer scholarship provided to encourage giving Adventist education a try.

### **The Student Transferring/Returning Scholarship**

The Transferring/Returning Scholarship is 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. For returning Southern students, the cumulative GPA is figured from the student's record each January. Southern does not round up numbers for this scholarship.

AWARD	SCHOLARSHIP AMOUNT AND QUALIFICATIONS
Bronze Circle	\$1,500 with maintenance of 3.40-3.59 GPA
Silver Circle	\$2,000 with maintenance of 3.60-3.79 GPA
Gold Circle	\$2,500 with maintenance of 3.80 and above GPA

## Placement in National Merit Scholarship Competition\*

PLACEMENT	1 <sup>ST</sup> YEAR SCHOLARSHIP	RENEWABLE FOR THREE YEARS**
Finalist	Full Tuition	50% Tuition with maintenance of 3.80 GPA

Semi-Finalists and Commended placements will receive scholarships based on requirements for the Freshman Academic Scholarship or the Student Transferring/Returning Scholarships.

*\*We also scholarship students in the National Hispanic Recognition Program and the National Achievement Scholarship Program for African Americans.*

*\*\*Qualification for renewable scholarships is based on cumulative Southern Adventist GPA.*

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.

### Summer Ministries Leadership 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 matched 50%, with a cap of \$2,000.

*Summer Camp Scholarship* - \$150 per full week worked, with a cap of \$1,800. 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 by March 1. This information is needed early for budgeting and awarding.

### Departmental Scholarships

Some departments/schools offer scholarships for students who meet departmental criteria. These scholarships are normally awarded to sophomores, juniors, and seniors who have performed up to certain levels in the department. Scholarships are usually awarded at Awards Convocation in April of each academic year. Check with the department of your major for more information.

### 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 or Parent Plus Loan. To find out what that amount would be after financial aid is applied, call 1.800.SOUTHERN.

### **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 nine months of service.

### **SmartStart Free Tuition Savings**

To take advantage of FREE tuition for one class (equaling 3 credit hours), entering freshmen or first-time transfer students are encouraged to apply for the special summer SmartStart session.

### **Performance Scholarships**

Each year performance scholarships are awarded by the School of Music (for the Orchestra, the Wind Symphony, and the choirs), the Gym-Masters, and the Destiny Drama Company. Some of these performance scholarships are by audition only. The scholarships may be renewable for each year the student is in college 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 423.236.2787.

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

The Southern Scholars Honors Program is designed to enrich the studies of academically motivated students. Students who participate in Southern Scholars for at least a year are eligible for 12 hours of tuition rebates, which are distributed over four semesters of their junior and senior years. For more information, call Mark Peach at 423.236.2743 or email [peach@southern.edu](mailto:peach@southern.edu).

### **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 more than 180,000 private scholarships, fellowships, grants, and loans at [www.fastweb.com](http://www.fastweb.com).

### **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.
- 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.
- Scholarships listed here are available only for full-time students taking 12 or more undergraduate hours each semester.
- All scholarship offers are contingent on the student enrolling during the 2009-2010 school year and are not transferable to a future year.
- 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 Academic Progress 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 free grant monies is 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 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).

## Loans

**Federal Nursing Student Loans** are available to nursing students only, 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 \$1,000 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 PLUS Loans** are available to **parents** of dependent undergraduate students who have satisfactory credit histories. The student must be enrolled at least half-time. These loans, like Federal Stafford Loans, are made by a lender such as a bank, credit union, or savings and loan association. 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 variable but not higher than nine percent. Variable interest rates are set each June. For more information on the interest rate, parents should contact the organization that holds their loan.

The "origination fee" of up to four percent of the loan principal is deducted proportionately from each disbursement made, although many lenders waive this fee. The lender may collect an insurance premium of up to one percent of the loan principal, which is deducted proportionately from each disbursement.

The procedure for applying is the same as for a Federal Stafford Loan. 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 lenders 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 Stafford Loans** are low-interest loans made to students attending college at least half-time. Loans are made by a lender such as a bank, credit union, or savings and loan association. 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 Stafford 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 Stafford 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 Stafford 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 Stafford 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 Stafford 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 Stafford 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.

For information on the interest rate, students should contact the organization that holds their loan.

The “origination fee” of up to four percent of the loan principal is deducted proportionately from each disbursement made, although many lenders waive this fee. The lender may collect an insurance premium of up to one percent of the loan principal, which is deducted proportionately from each disbursement.

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.

Southern Adventist University maintains a list of lenders that provide special rates and incentives to our students (called a “preferred” lender list), but students can choose any lender that they want and are encouraged to compare the different options for themselves.

**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. 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.

### **Tuition and Fee Waiver for Student Missionaries and Task Force Workers**

Those students planning to serve as Student Missionaries or Task Force Workers and enrolling in NOND 227 and 228, Christian Service I and II, will receive a full rebate of \$4,107/semester to cover 90% of the tuition for these classes (\$3,737) and the general fee (\$370).

Students enrolled in HMNT 215/415 Cross-Cultural Experience and COMM 291/391, Intercultural Communication Practicum, will be given a tuition rebate of \$461/semester hour.

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

### **Collegedale Academy Students Tuition Fee Waiver**

Collegedale Academy students may take up to six credit hours at Southern at a rate of  $\frac{1}{2}$  of the current tuition rate per hour. Students eligible for denominational subsidy will receive the subsidy of 35% or 70% of the tuition paid. Private music lessons are at the regular Southern tuition rate.

### **Senior Citizen Tuition Plan**

Persons 65 years of age or over may audit one undergraduate course free of charge per semester, or take for credit, at one-half the normal charge, one undergraduate course. There must be space available in the class to be eligible for this plan.

## Financial Aid Application Procedures

### Financial Aid Applications

The Free Application for Federal Student Aid (FAFSA), or Renewal Free Application for Federal Student Aid (RFAFSA) for returning students 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**.

### 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. This worksheet should be completed, then mailed to the SAU Enrollment Services Office.
2. Copies of parents' signed income tax return (exact signed copies of all schedules and W-2 forms sent to the IRS). These copies should be mailed to SAU with the Federal Verification Worksheet.
3. Copies of student's signed income tax return including W-2 forms. These copies should be mailed to SAU with the Federal Verification Worksheet.

### 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 Federal Pell Grant and Federal Family Education Loans (Subsidized Stafford, Unsubsidized Stafford, and Parent PLUS) 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 returned within the allotted time.

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

### 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 once 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. An exit interview is required 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 until an exit interview is 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 \$10,000 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 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 GRADE POINT AVERAGE
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 **67.00 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 probation. If the cumulative GPA or the completion rate is below the required level at the end of the probationary period, the student will be ineligible to receive financial aid and may file an appeal with the academic dean.

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.

## **Financial Aid Refund Policy**

The Southern Adventist University refund policy for students withdrawing from classes is outlined on page 72.

Since financial aid is considered to be used first for direct educational costs (tuition, fees, room, board, and books), 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 regulations, refunds due to Federal Title IV programs will be allocated according to the following priority:

1. Unsubsidized Federal Stafford loans
2. Subsidized Federal Stafford loans
3. Federal Perkins loans
4. Parent Federal (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 Stafford 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 228 must have taken NOND 099 as a prerequisite. A maximum of 12 hours is available during the year of service. Tuition is charged at ten percent of the current rate. 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 <http://hr.southern.edu> 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 school nurse 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 part-time while they are in school. 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 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 title 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 or they voluntarily return their earnings to be applied to their student account.

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.

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 the student's 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).....	\$ 692.00
Tuition for 12-16 semester hours (flat fee) .....	8,186.00
Tuition for each semester hour over 16.....	529.00
Tuition for each semester hour of summer school .....	529.00
*General Fee per semester (charged to each student enrolled for 6 or more hours)	370.00

### **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 .....	692.00
Add/Drop fee.....	20.00
Application for admission (non-refundable) .....	25.00

## Audit tuition per semester hour:

If taking 9 or more undergraduate hours for credit .....	Free
If taking 8 or less undergraduate hours for credit .....	346.00

## Automobile parking fee (per semester):

Residence hall students .....	40.00
Village students .....	40.00
Motorcycle parking fee .....	40.00

Clinical Laboratory Science recording fee (senior year) ..... 55.00

Collegedale Academy student tuition ..... ½ reg. rate

Commitment deposit/Housing deposit ..... 250.00

Continuing Education Units ..... 10.00

## Examinations:

Challenge or waiver .....	50.00
CLEP .....	50.00
Credit by examination (per hour) recording fee .....	40.00
TOEFL .....	25.00
Rescheduling final .....	65.00

Graduation fee ..... 50.00

Insufficient funds check fee and penalty ..... 25.00

## \*\*Insurance (Estimate Only):

Student .....	660.00
Spouse .....	1,760.00
Child .....	715.00
All Children (2 or more).....	1,320.00

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

Late Registration..... 50.00

Late return of organizational uniform.....	40.00
(The full cost will be charged if irreparably damaged or not returned.)	
Lost housing key or replacement:	
Talge/Thatcher Halls.....	30.00
Lost student I.D. or replacement (must be cash payment) .....	15.00
Music lesson fee per semester hour .....	175.00
Nursing consortium tuition per hour.....	280.00
Nursing deposit.....	400.00
Online delivery fee per semester hour.....	100.00
RN Update .....	440.00
Packing and moving fee .....	75.00
***Residence Hall rent per semester .....	1,540.00
Southern Village rent per semester .....	1,720.00
Transcript fees:	
Rush service (48 hours) .....	10.00
Single request for 6 or more copies.....	10.00
FedEx service (48 hours).....	25.00
International fax service .....	15.00

\*Fee is used for computer technology, academic transcripts, and registration.

\*\*Estimated annual fee that is subject to change by insurance company.

\*\*\*See page 71 for further explanation of rent charges

### Estimated Student Budget (SAU Campus)

	Residence Hall Student		NonResidence Hall Student	
	Semester	Year	Semester	Year
Tuition (12-16 hrs/semester)	8,186	16,372	8,186	16,372
General Fee	370	740	370	740
Residence Hall Rent**	1,540	3,080		
Food	975	1,950		
Books and Misc. Supplies	<u>500</u>	<u>1,000</u>	<u>500</u>	<u>1,000</u>
Total Estimated Costs*	\$11,571	\$23,142	\$9,056	\$18,112

(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 page 71 for further explanation of rent charges.

### Approved Items to Charge to Student Account

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

Southern’s 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, and the Kayak. Residence hall students will be billed \$975 at the beginning of each semester.

The \$975 food allowance for the fall semester begins August 23, 2009, and ends on December 31, 2009. The \$975 food allowance for the winter semester begins January 1, 2010, and ends on May 2, 2010. There is no food allowance 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 \$975 per semester for purchases from Food Services, food charged to the Campus Card over that amount will be automatically billed to the student's statement on a monthly basis.

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 \$975 minus what they have already used.

Community students may charge food at the Campus Kitchen, Dining Hall, KR's Place, and the Kayak as long as their school accounts are paid monthly by the due date.

Both residence hall students and community students may charge up to \$100/month in miscellaneous purchases (does not include books) at the Village Market and/or Campus Shop as well as making photocopies and/or paying computer lab printing expenses.

Once a student has charged \$100 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 at the Campus Shop. A student will be allowed to charge a maximum of \$500 to their student account per semester.

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 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 is unable to pay his or her student account, 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. 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**

#### *Residence Hall Costs*

Room charges are based on two students occupying one room. Residence hall accommodations costs for each individual are \$3,000 (no private bathroom) or \$3,080 (with private bathroom) for the school year. 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 \$4,620. Residence hall students living in the Southern Village apartments are charged \$3,440 for the school year.

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.

#### *Residence Hall Deposit and Deposit Refund*

A room deposit of \$250 is required of each resident. To guarantee a room in the residence hall, payment of this deposit must be made by July 1. After July 1, no room is held for a student whose deposit has not been paid. This deposit should be sent directly to Southern Adventist University and is held in reserve until the student graduates and/or permanently moves out of the residence hall. The deposit is in addition to any other payment, and is refundable if requested in writing to the Associate Dean of Housing before July 1.

#### *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. Rent will be charged monthly during the summer. 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.

#### *University Apartment Deposit and Deposit Refund*

Married students and single students over 23 years of age renting an apartment from the University must pay a housing deposit of \$250 to reserve an apartment. This housing deposit is due before occupancy and is sent directly to Southern Adventist University. The deposit is in addition to any other payment.

If a student gives notice before July 1 that s/he will not be attending, the housing deposit will be refunded. Damage or cleaning charges may also be charged to the student's account if the deposit is insufficient to cover these costs. The housekeeping supervisor at



the Service Department will determine whether the apartment has been left clean and undamaged. A packing and moving fee may be charged as necessary.

### **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 [www.http://aca-noborders.org](http://aca-noborders.org).
2. Complete and return the ACA application to the Modern Languages Department.
3. Follow one of the following payment plans:
  - Pay the total amount of tuition, room, board, hospital and accident insurance, personal account deposit, and tour deposit of the chosen school by August 1.
  - Semester System: Pay one-half of the total charges and tour charge by August 1. The remaining one-half must be paid by November 1.
  - Quarter System: Pay one-third of the total charges and tour charge by August 1; one-third by November 1; and the remaining one-third by February 1.

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:

1. Have their Southern Adventist University account paid in full.
2. Have completed all necessary paperwork for federal financial assistance and received a financial aid award letter before August 1 if relying on financial aid.
3. Subtract tuition assistance and/or federal financial aid from the total ACA charges due.
4. Pay Southern for charges before the University makes payment to ACA. If payment is not received, students will 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 and 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 will also be adjusted based on the refund amount that a student receives.

Refunds are calculated as follows:

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

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

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

### **Refund of Credit Balances**

Credit balances are refundable, upon request from financial sponsor, 30 days after the monthly statement is received for the last month the student was in college 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.

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 other 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**

Two payment plans are available.

### **Year in Advance Payment Plan**

Southern Adventist University offers a five percent discount if payment is made by cash or check and a three percent discount if payment is made by credit card or Parent Plus Loan. Students choosing to pay the year in advance must, on or before registration, pay the full amount required by the plan. Amounts paid as a result of scholarships, grants, and/or student loans are excluded from the amount on which the discount is allowed. A

worksheet for each student desiring the prepayment discount must be completed by the Enrollment Services Office. The prepayment discount is only available to students taking 6 or more hours per semester.

### **Monthly Payment Plan**

A monthly payment plan is available for the 2009-2010 academic year through the Enrollment Services Office.

## **Methods of Payment**

### **Credit Card Payments**

The Cashier's Office honors VISA, MasterCard, Discover, American Express and debit (if card owner is present) 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) student's name and ID number; 6) amount to be charged on card; and, 7) the billing address of the credit 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**

Payment through automatic credit card deductions may be arranged. This arrangement is made through the Enrollment Services Office. A signed written request for automatic credit card deductions, stating the amount to be deducted, the date each month the deduction should be made, the amount to be deducted each month, and the billing address of the credit card will be required.

### **Personal Check Payments**

Payments made to a student's account 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.

## **Billing Procedures**

### **Monthly Statements**

Statements will show all monthly/semester charges and credits and will be mailed to students on or before the 7<sup>th</sup> business day of each month. The monthly payment is due the 28<sup>th</sup> of each month. In some cases, the statement may take an extended amount of mail time to reach the parent or financial sponsor. It is the responsibility of the student to communicate the monthly due to the parents/financial sponsor in these cases.

Before registering for a new semester, the student account balance must be paid in full.

## **Tuition Assistance**

Please notify Enrollment Services if either parent is eligible for tuition assistance from an employer. Indicate whether the employer is an educational institution or some other organization. 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 that student is eligible for tuition assistance, the award letter must be adjusted. Please notify the Enrollment Services Office if this is the case.

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

It is the policy of the University to withhold transcripts if a student has an unpaid or past-due account at the University.

An official academic transcript will be issued for a currently enrolled student when the student's account is current. 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 CARD TO COVER THE BALANCE OF THE ACCOUNT WHEN REQUESTING THE DOCUMENTS.** Under provisions of federal loan programs, Southern Adventist University withholds any records when payments for these loans become past due or are in default.

## **Collection Policies and Procedures**

### **Accounts Collection Policy**

Students completing or terminating their studies with the University are required to pay their balance in full prior to leaving. Payments due on non-current accounts that are not received by the last working day of the month will be charged a one percent finance charge.

When a student who was enrolled first semester does not enroll second semester and has left with an unpaid account, that account will be designated a non-current student account as of February 15.

When a student leaves at the end of second semester who does not return for the summer session and has left with an unpaid account, the account will be designated a non-current student account as of July 15.

When a student leaves at the end of second semester with an unpaid account and plans to return the following year, the student will have until June 28 to bring the account current. If the student decides not to return, then this account will be designated a non-current account as of October 15.

At the time any account is designated non-current, a finance charge of one percent per month will apply.

When a non-current account is 90 days past due and neither satisfactory payments nor communication have been received, and unsuccessful attempts have been made by the Enrollment Services Office to contact the individual, the account will be submitted to a collection agency or attorney.

If the University deems it necessary to employ a collection agency or an attorney to collect defaulted accounts, all charges for these services, including court costs, if incurred, will be added to unpaid bills.

Any student that has an amount that has been written off due to an uncollectible or lost account, must pay the written off amount prior to receiving transcripts, enrolling in any class, or being re-accepted as a student.

Any student with an account that has not been paid in full due to a bankruptcy filing, must be paid in full before acceptance or enrollment unless (1) the student has received a hardship discharge from the bankruptcy court and provides a copy of the same to the University or (2) the student can demonstrate to the satisfaction of the University that his or her account falls outside of the educational benefit discharge exception of Section 523(a)(8) of the Bankruptcy Code.

### **Policy on Transcript, and Diploma Requests for Non-current Students**

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 (if a federal loan borrower) has not completed an Exit Interview.

Official 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 CARD TO COVER THE BALANCE OF THE ACCOUNT WHEN REQUESTING THE DOCUMENTS. Under provisions of federal loan programs, Southern Adventist University withholds any records when payments for these loans become past due or are in default.

### **Policy on Legal Proceedings**

Southern Adventist University shall not render services to former students who may be involved in any legal proceedings, until court confirmation has been received with regards to the legal actions taken.

### **Bankruptcy Policies and Procedures**

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 the financial sponsor in no way changes the underlying financial obligation of the student to pay his or her student account.

## Degrees and Curricula

**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 Social Work and Family Studies Department 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 program. Requirements for this certificate are outlined in the Technology Department section.

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

### CURRICULUM CHART

#### Department/

School	Degree	Major	Minor
Allied Health	B.S.	Clinical Laboratory Science	
	A.S.	Allied Health Pre-Dental Hygiene	
	A.S.	Allied Health Pre-Health Information Admin	
	A.S.	Allied Health Pre-Nutrition and Dietetics	
	A.S.	Allied Health Pre-Occupational Therapy	
	A.S.	Allied Health Pre-Physical Therapy	

<b>Department/ School</b>	<b>Degree</b>	<b>Major</b>	<b>Minor</b>
Allied Health	A.S.	Allied Health Pre-Respiratory Therapy	
	A.S.	Allied Health Pre-Speech Language Pathology & Audiology	
Biology	B.A.	*Biology	Biology
	B.S.	Biology	
	B.S.	Biology, Biomedical	
Business and Management	M.B.A.	Business	
		Accounting	
		Church and Nonprofit Leadership	
		Healthcare Administration (available online)	
		Management (available online)	
		Marketing Management	
		Dual Degree—MSN & MBA (MBA available online)	
	M.F.S.	Financial Services	
	M.S.A.	Administration	
		Church Administration	
		Outdoor Education	
		(See Graduate Catalog)	
	B.B.A.	Computer Information Systems	Business Administration Entrepreneurial Mgmt Human Resource Mgmt Management Marketing
	B.B.A.	Financial Management	
		Accounting	
		Finance	
	B.B.A.	General Management	
		Entrepreneurship	
		General Management	
		Human Resource Management	
	International Business		
B.B.A.	Marketing		
B.S.	Business Administration		
B.S.	Business Administration/Public Relations		
B.S./A.T.	Business Administration/Auto Service		
B.S.	Long-Term Care Administration		
	Nonprofit Administration/Development		
	Communications International/Community Relations Nonprofit Leadership		
A.S.	Accounting		
A.S.	Business Administration		
Chemistry	B.A.	*Chemistry	Chemistry
	B.S.	Chemistry	
	B.S.	Chemistry, Biochemistry	
Computing	B.B.A.	Computer Information Systems	Computing
	B.A.	Computer Science	
	B.S.	Computer Science	
		Computer Science	
		Embedded Systems	
B.S.	Computer Systems Administration		

<b>Department/ School</b>	<b>Degree</b>	<b>Major</b>	<b>Minor</b>
Education and Psychology	M.S.	Clinical Mental Health Counseling School Counseling	
	M.S.Ed.	Curriculum & Instruction	
		Educational Administration and Supervision	
		Inclusive Education (available online)	
		Literacy Education	
		Outdoor Teacher Education (available online with intensive field session) (See Graduate Catalog)	
	B.A.	Psychology	Education
	B.S.	Psychology, Industrial/Organizational Con	Industrial/Org Psych
	B.S.	Psychology, Psychobiology Concentration	Outdoor Leadership
	B.A.	Liberal Arts Education (K-6 TN/K-8 SDA)	Relief Medic
	B.S.	Outdoor Emergency Services	Psychology
	B.S.	Outdoor Leadership	
		Adventure Therapy	
		Business	
Cultural Interpreter			
Naturalist			
Outdoor Ministry			
Public Relations/Advertising			
Recreation Technology			
Engineering Studies	A.S.	Engineering Studies	
English	B.A.	*English	English
General Studies	A.A.	General Studies	
	A.S.	General Studies	
History	B.A.	*History	History
		European Studies	Political Economy Political Science Western Intellectual Tradition
Interdisciplinary	BS/BA/ BBA	Interdisciplinary	
Journalism and Communication	B.A.	Broadcast Journalism	Advertising
	B.A.	Intercultural Communication	Broadcast Journalism
	B.A.	Journalism	Intercultural Comm
	B.S.	Mass Communication	Journ (News Editorial)
		Advertising	Media Production
		Media Production	Photography
		New Media	Public Relations
		Photography	
	Writing/Editing		
B.S.	Public Relations		
B.S.	Public Relations/Business Administration		



<b>Department/ School</b>	<b>Degree</b>	<b>Major</b>	<b>Minor</b>
Journalism and Communication	A.S.	Media Technology New Media Production	
Mathematics	B.A. B.S.	*Mathematics Mathematics	Mathematics
Modern Languages	B.A. B.A. B.A.	*French International Studies Emphasis in French, German, Italian or Spanish *Spanish	French German Italian Spanish
Music	B.S. B.Mus.	Music General Music Theory & Literature Music Performance *Music Education	Music
Nursing	M.S.N. B.S. A.S.	Nursing Acute Care Nurse Practitioner Adult Nurse Practitioner Family Nurse Practitioner Nurse Educator Dual Degree—MSN and MBA (MBA available online) Accelerated RN to MSN Accelerated Dual Degree (See Graduate Catalog)	
PE, Health and Wellness	B.S. B.S. B.S. B.S.	*Health, PE, and Recreation Health Science Corporate/Community Wellness Management Sports Studies Human Performance Journalism Management Marketing Psychology Public Relations/Advertising Recreation	Health & Wellness Physical Education
Physics	B.A. B.S. B.S.	*Physics Physics Biophysics	Physics
Religion	M.A.	Religion Biblical and Theological Studies Religious Studies	

<b>Department/ School</b>	<b>Degree</b>	<b>Major</b>	<b>Minor</b>
Religion	M.M.	Ministry Church Leadership and Management Church Ministry and Homiletics Evangelism and World Mission (See Graduate Catalog)	
	B.A.	Archaeology Classical Studies Near Eastern Studies	Archaeology Biblical Languages Christian Service
	B.A.	Biblical Studies	Missions
	B.A.	Missions	Practical Theology
	B.A.	Pastoral Care	Religion
	B.A.	*Religious Education	Youth Ministry
	B.A.	Religious Studies	
	B.A.	Theology	
	A.A.	Religion Bible Instructor Literature Evangelist	
	Social Work and Family Studies	B.S.	Family Studies
B.S.W.		Social Work	Family Studies Sociology
Technology	B.S./A.T.	Business Administration/Auto Service	Auto Service
	A.T.	Architecture Drafting	Technology
	A.T.	Auto Service	
	A.T.	Construction Management	
	Cert.	Auto Service Technician	
Visual Art and Design	B.A.	Art	Art
	B.A.	Art-Therapy	Art Education
	B.F.A.	*Art Education K-12	Art History
	B.F.A.	Fine Arts	Graphic Design
	B.S.	Animation Character Animation Effects Animation	
	B.S.	Technical Animation	
	B.S.	Film Production	
	B.S.	Graphic Design Graphic Design Print Graphic Design Web	
	B.S.	Interactive Media	
	A.S.	Graphic Design	

\*Secondary teaching certification available for these disciplines  
 Cert = One-year certificate program

## Preprofessional Curricula

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	Pharmacy
Dentistry		Podiatric Medicine
Law		Pre-Physician Assistant
Medicine		
Optometry	Veterinary Medicine	

Detailed requirements for non-degree preprofessional curricula are outlined by department or in the section on “Non-degree Preprofessional Programs ” (See Index).

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.

## Prefix Glossary

<b>Prefix</b>	<b>Subject Area</b>	<b>Department/School Section of Catalog</b>
AART	Animation	Visual Art and Design
ACCT	Accounting	Business and Management
ALHT	Allied Health	Allied Health
ART	Studio Art/Art History	Visual Art and Design
ARTE	Art Education	Visual Art and Design
ARTF	Film Production	Visual Art and Design
ARTG	Computer Graphics	Visual Art and Design
ARTH	Art History	Visual Art and Design
ARTI	Interactive Media	Visual Art and Design
ASL	American Sign Language	Modern Languages
BIOL	Biology	Biology
BMKT	Marketing	Business and Management
BRDC	Broadcasting	Journalism & Communication
BUAD	Business Administration	Business and Management
CHEM	Chemistry	Chemistry
COMM	Communication	Journalism & Communication
COOP	Cooperative Education	Nondepartmental Courses
CPHE	Hardware and Embedded Systems	Computing
CPIS	Information Systems	Computing
CPTC	Computer Technology	Computing
CPTR	Computer Science	Computing
ECON	Economics	Business and Management
EDOE	Outdoor Education	Education and Psychology
EDUC	Education	Education and Psychology
EESL	English Language Skills	English
ELIT	Literature	English

<b>Prefix</b>	<b>Subject Area</b>	<b>Department/School Section of Catalog</b>
ENGL	English	English
ENGR	Engineering	Physics
ERSC	Earth Science	Physics
FNCE	Finance	Business and Management
FREN	French	Modern Languages
GEOG	Geography	History
GRMN	German	Modern Languages
HIST	History	History
HLED	Health Education	Physical Education, Health, & Wellness
HLNT	Nutrition for Life	Physical Education, Health, & Wellness
HMNT	Humanities	History
HPER	Health, Physical Ed, Recreation	Physical Education, Health, & Wellness
ITAL	Italian	Modern Languages
JOUR	Journalism	Journalism & Communication
LTCA	Long-Term Care Administration	Business and Management
MATH	Mathematics	Mathematics
MDLG	Modern Language	Modern Languages
MGNT	Management	Business and Management
MUCH	Church Music	Music
MUCT	Music Theory	Music
MUED	Music Education	Music
MUHL	Music History	Music
MUPF	Choral Ensemble, Individual Group and Instruction	Music
NOND	Nondepartmental	Nondepartmental
NRNT	Nutrition	Nursing
NRSG	Nursing	Nursing
OUTL	Outdoor Leadership	Education and Psychology
PEAC	General Ed Activity Classes	Physical Education, Health, & Wellness
PETH	Physical Education Theory	Physical Education, Health, & Wellness
PHTO	Photography	Journalism & Communication
PHYS	Physics	Physics
PLSC	Political Science	History
PREL	Public Relations	Journalism & Communication
PSYC	Psychology	Education and Psychology
RECR	Recreation	Physical Education, Health, & Wellness
RELB	Biblical Studies	Religion
RELL	Biblical Languages	Religion
RELP	Professional Training	Religion
RELT	Religion and Theology	Religion
RUSS	Russian	Modern Languages

<b>Prefix</b>	<b>Subject Area</b>	<b>Department/School Section of Catalog</b>
SOCI	Sociology	Social Work & Family Studies
SOCW	Social Work	Social Work & Family Studies
SPAN	Spanish	Modern Languages
TECH	Technology	Technology

## ALLIED HEALTH

**Chair:** Keith Snyder

**Faculty:** Joyce L. Azevedo, David Ekkens, L. Ann Foster, Rick Norskov, Richard Seidel, Lee Spencer, Neville Trimm

**Program Advisor:** Renita Klischies

**Adjunct Faculty:** Renita Klischies, Kathy Tan

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

### Allied Health

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 Clinical 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 advisors 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 Clinical Laboratory Science

**Advisor:** Renita Klischies

The Bachelor of Science degree with a major in clinical laboratory science (medical technology) consists of three years of prescribed study at Southern Adventist University and a 12- to 13-month senior year in a hospital-based medical technology program accredited by the Committee on Allied Health Education and Accreditation (CAHEA) of the American Medical Association. The hospital program affiliated with Southern Adventist University is Andrews University. Internship in other CAHEA-accredited programs requires prior university approval.

The Clinical Laboratory Science degree qualifies a person to take a number of national certifying examinations, including those offered by the Board of Registry of the American Society of Clinical Pathologists (ASCP) and the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). Certified laboratory professionals work in hospitals, clinics,

physicians' offices, public health agencies, private laboratories, pharmaceutical firms, and research institutions.

The curriculum prescribed by Southern Adventist University is designed to meet the requirements of the University and of CAHEA. Hospitals with clinical programs may have additional requirements. Students should consult the brochures or advisors of the specific hospitals for those requirements.

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

During the fall semester of the third year, students must apply for admission to an approved clinical program. Acceptance of the individual student to the senior year program is determined by the institution offering the clinical program. To be eligible for admission, a student must complete all of the University course requirements prior to beginning the clinical year. The overall grade point average must be acceptable to the University for graduation. Most clinical programs do not accept students with less than a 2.75 cumulative average on a 4.00 system. Although clinical acceptances are granted during the junior year, they are conditional, pending satisfactory completion of the stated admission criteria.

Written information about the affiliated clinical programs is available through the University Allied Health advisor. Acceptance criteria, pre-clinical course requirements, application procedures, tuition for the senior year, and program formats may vary at each approved clinical program.

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.

**Major—B.S. Clinical Laboratory Science (27 Hours)**

<b>Required Core Courses</b>		<b>Hours</b>	<b>General Education Courses</b>		<b>Hours</b>
ALHT 225	Intro to Clinical Lab Science	2	COMM 135	Intro to Public Speaking	3
BIOL 161-162	General Biology	10	ENGL 101-102	College Composition	6
BIOL 284	Intro to Research	1	MATH 120	Precalculus Algebra*	3
BIOL 311	Genetics	4	NOND 101	Southern Connections	1
BIOL 330	General Microbiology	4	PEAC 225	Fitness for Life	1
BIOL 340	Immunology	3	Area A	Computer Course	3
	UD Biology Elective**	3	Area B	Religion	6
			Area B	Upper Division Religion	3
			Area C	History	6
			Area D	Foreign Lang/Lit/Fine Arts	3
			Area F	Behav/Fam/Hlth Sci	3
			Area G	Recreational Skills	1
				Electives***	9

<b>Required Cognates</b>		<b>Hours</b>
Chem 151-152	General Chemistry	8
Chem 311-312	Organic Chemistry	8
MATH 215	Statistics	3

- \*Waived if equivalent math was taken in high school with minimum grade of B.
- \*\*Biology Elective—Recommended 424..... 3
- \*\*\*Electives ..... 9

Recommendations include:

CHEM 315, 321, 341; MGNT 334; PHYS 211-212, 213-214

**TOTAL PRE-CLINICAL CREDIT HOURS .....94**

Prior to the clinical year, 94 total hours must be completed.

**HOSPITAL CLINICAL (SENIOR) YEAR.....Variable**

Individual approved hospital programs should be consulted for their specific courses and credits. Approximately forty credit hours are given in the twelve to fifteen-month clinical programs. Courses taught in approved programs include:

- Introduction to Clinical Laboratory Science, Urinalysis, Hematology, Hemostasis, Immunology, Immunohematology, Clinical Microbiology, Clinical Mycology, Clinical Parasitology, Clinical Biochemistry, Instrumentation, Research.

**Associate of Science in Allied Health**

The Associate of Science degree in Allied Health Professions prepares the student for admission to professional programs at Loma Linda University, Andrews University, or other universities. Admission to any professional school is dependent on meeting the GPA and prerequisite requirements of the individual school. Students should consult the bulletin of the school of their choice to ascertain the entrance requirements.

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

Applications for transfer to the junior year of colleges offering Allied Health programs must be made late first semester of the final year at Southern Adventist University. The lowest acceptable grade for courses to be transferred is C. A minimum grade point average of 2.00 is required for the Associate of Science degree at Southern Adventist University, but grade point averages between 3.00 and 3.50 are considered minimal for entrance to the junior year of most clinical Allied Health programs. Some programs require 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 a two year Associate Degree may be earned at Southern Adventist University are:

- pre-Dental Hygiene
- pre-Health Information Administration
- pre-Nutrition and Dietetics
- pre-Occupational Therapy
- pre-Physical Therapy
- pre-Respiratory Therapy
- pre-Speech Language Pathology & Audiology

The department also offers one-year curricula to meet requirements for entrance into the following Allied Health degree programs at Loma Linda University and most other university 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 listed here and for Southern Adventist University curricula for entrance into them write:

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

### Major—A.S. Allied Health Pre-Dental Hygiene (32 Hours)

**Advisor:** Renita Klischies

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 pages 32-36.

Required Courses		Hours	General Education Courses		Hours
ALHT 111	Intro to Health Professions	1	COMM 135	Intro to Public Speaking	3
BIOL 101-102	Anatomy & Physiology	8	ENGL 101-102	College Composition	6
CHEM 111-114	Survey of Chem & Lab	8	NOND 101	Southern Connections	1
BIOL 225	Basic Microbiology	4	PEAC 225	Fitness for Life	1
HLED 173	Health for Life**	2	Area A	CPTC 100, 105, 106	3
MATH 106	Survey of Math I		Area B	Religion	6
	OR	3	Area C-1	History	3
MATH 120	Precalculus Algebra		Area D	Foreign Lang/Lit/Fine Arts*	6
SOCI 125	Intro to Sociology	3	Area F-1	Psychology***	3
SOCI 150	Cultural Anthropology		Area G-3	PE Activity	1
	OR	3			
SOCI 230	Multicultural Relations				

\* Must include two different areas

\*\*May be substituted by NRNT 125

\*\*\*May be substituted by a course in Economics, Geography, or Political Science

Electives to make a total of 64 hours

NOTE: C is the lowest acceptable grade

Recommended: BIOL 255 Intro to Dentistry

### Major—A.S. Allied Health Pre-Health Information Administration (33 Hours)

**Advisor:** Renita Klischies

Health information Administration is an excellent career choice for those who would like to have a profession in healthcare that combines interests in computer science, business, management, law, and medicine. These professionals have opportunities to assist in the development of health information systems for quality patient care, financial reimbursement, medical research, health care planning, and health care quality evaluation. One of the many career options chosen by Health Information Administrators is the management of a health information department. In this position the manager will

determine department policies, budget department resources, provide leadership in planning and organizing the department, and evaluate and motivate employees.

Southern Adventist University offers a two-year associate degree that provides the prerequisite courses for entrance into the final two years of the bachelors degree program at Loma Linda University. The program can be modified to meet requirements of other schools. For a complete description of Southern’s General Education requirements, refer to pages 32-36.

Required Courses		Hours	General Education Courses		Hours
ACCT 103	College Accounting	3	COMM 135	Intro to Public Speaking	3
ALHT 111	Intro to Health Professions	1	CPTe 100	Computer Concepts*	1
BIOL 101-102	Anatomy & Physiology	8	ENGL 101-102	College Composition	6
BUAD 104	Business Software	3	NOND 101	Southern Connections	1
BUAD 310	Bus Communications (W)	3	PEAC 225	Fitness for Life	1
CHEM 111, 113	Survey of Chem I & Lab***	4	Area A-2	Mathematics****	3
HLED 173	Health for Life**	2	Area B	Religion	6
PSYC 122	General Psychology	3	Area C-1	History (Choose 1 from 154, 155, 174, or 175)	3
SOCI 150	Cultural Anthropology		Area D	Foreign Lang/Lit/Fine Arts (from 2 different areas)	6
	OR	3	Area G-3	PE Activity	1
SOCI 230	Multicultural Relations				
SOCI/PLSC/GEOG	Elective	3			

\* May take challenge exam

\*\*May be substituted by NRNT 125, Nutrition

\*\*\*May be substituted by CHEM 151, General Chemistry I

\*\*\*\*Three years high school math including Algebra I, II, plus a higher math or college algebra taken in college Electives to make a total of 64 hours

NOTE: C is the lowest acceptable grade

Medical Terminology (not offered at SAU—See Allied Health advisor)

### Major—A.S. Allied Health Pre-Nutrition and Dietetics (29-33 Hours)

**Advisor:** Renita Klischies

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 (33 Hours)

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 pages 32-36.

## Andrews University Track, continued

Required Courses		Hours	General Education Courses		Hours
ALHT 111	Intro to Health Professions	1	COMM 135	Intro to Public Speaking	3
BIOL 101-102	Anatomy & Physiology	8	ENGL 101-102	College Composition	6
BIOL 225	Basic Microbiology	4	HIST 174-175	World Civilizations I & II	6
CHEM 111-114	Survey of Chemistry & Lab	8	HMNT 205	Arts & Ideas	3
MATH 120	Precalculus Algebra*	3	NOND 101	Southern Connections	1
NRNT 125	Nutrition	3	PEAC 225	Fitness for Life	1
PSYC 122	General Psychology	3	Area A	CPTe 100, 105, 106	3
SOCI 125	Intro to Sociology	3	Area B	Religion	6
			Area G-3	PE Activity	1
			Select three (3) hours from the following:		3
			ARTH 218	Art Appreciation	
			ELIT 216	Approaches to Literature	
			HMNT 210	Intro to Philosophy	
			MUHL 115	Listening to Music	
			PHTO 125	Intro to Photography	

\*Three years of high school math including Algebra I, II plus higher math or college algebra taken in college  
Electives to make a total of 64 hours

## Loma Linda University Track (29 Hours)

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 pages 32-36.

Required Courses		Hours	General Education Courses		Hours
ALHT 111	Intro to Health Professions	1	COMM 135	Intro to Public Speaking	3
BIOL 101-102	Anatomy & Physiology	8	ENGL 101-102	College Composition	6
BIOL 225	Basic Microbiology	4	NOND 101	Southern Connections	1
CHEM 151	General Chemistry**	4	PEAC 225	Fitness for Life	1
NRNT 125	Nutrition	3	Area A	CPTe 100, 105, 106	3
PSYC 122	General Psychology	3	Area B	Religion	6
SOCI 125	Intro to Sociology	3	Area C-1	History (Choose 1 from 154, 155, 174 or 175)	3
SOCI/PSYC/PLSC Elective		3	Area D	Foreign Lang/Lit/Fine Arts (from 2 different areas)	6
			Area G-3	PE Activity	1
				Electives (or Math)*	5

\*Three years of high school math including Algebra I, II plus higher math or college algebra taken in college

\*\*Can substitute CHEM 111-114

Electives to make a total of 64 hours

NOTE: C is the lowest acceptable grade

## Major—A.S. Allied Health Pre-Occupational Therapy (23-24 Hours)

**Advisor:** Renita Klischies

An occupational therapist works with people whose lives have been disrupted by physical injury or illness, developmental problems, the aging process, and social or psychological difficulties. Occupational therapists use selected educational, vocational and rehabilitative activities to help individuals reach the highest functional levels possible, become self reliant and build a balanced lifestyle of work and leisure.

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 pages 32-36.

A minimum of 40 hours work experience (volunteer or as an employee) in an occupational therapy department is required.

Required Courses		Hours	General Education Courses		Hours
ALHT 111	Intro to Health Professions	1	COMM 135	Intro to Public Speaking	3
BIOL 101-102	Anatomy & Physiology	8	ENGL 101-102	College Composition	6
CHEM/PHYS	Select from Chem/Phys/ Physical Science	3-4	NOND 101	Southern Connections	1
HLED 173	Health for Life**	2	PEAC 225	Fitness for Life	1
PSYC 122	General Psychology	3	Area A	CPT 100, 105, 106	3
PSYC 128	Developmental Psychology	3	Area A	Math Elective*	0-3
SOCI 125	Intro to Sociology	3	Area B	Religion	6
			Area C-1	History (Choose 1 from 154, 155, 174 or 175)	3
			Area D	Foreign Lang/Lit/Fine Arts (from 2 different areas)	6
			Area G-3	PE Activity	1
				Electives	8-11

\*Three years of high school math including Algebra I, II plus higher math or college algebra taken in college

\*\*May be substituted by NRNT 125 Nutrition

Electives to make a total of 64 hours

A minimum of 40 hours work experience (volunteer or as an employee) in an occupational therapy department is required

### Major—A.S. Allied Health Pre-Physical Therapy (92 Hours)

Advisor: Renita Klischies

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 (38 Hours)

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 pages 32-36.

Required Courses		Hours	General Education Courses		Hours
ALHT 111	Intro to Health Professions	1	COMM 135	Intro to Public Speaking	3
BIOL 101-102	Anatomy & Physiology*	8	ENGL 101-102	College Composition	6
CHEM 151-152	General Chemistry	8	NOND 101	Southern Connections	1
HLED 173	Health for Life**	2	PEAC 225	Fitness for Life	1
MATH 215	Statistics	3	Area A	CPT 100, 105, 106	3
PETH 315	Physiology of Exercise (W)	4	Area B	Religion	6
PHYS 127-128	Exploring Physics I & II	6	Area B	UD Religion	3
PSYC 101	Psyc of Personal & Soc Adj		Area C-1	History	3
	OR	3	Area D	Music or Art Appreciation	3
PSYC 122	General Psychology		Area G-3	PE Activity	1
PSYC 128	Developmental Psychology	3		Electives***	14
				UD Electives	9
				Medical Terminology	1

### Andrews University Track, continued

Medical Terminology (not offered at SAU—See Allied Health advisor)

\*May be substituted by BIOL 161-162, General Biology

\*\*May be substituted by NRNT 125, Nutrition

\*\*\*To fulfill the total 92 semester credits required, electives should be chosen from service-related courses, business, cultural and diversity courses, arts and humanities, and physical activities. At least 15 upper division credits (300 or 400 level courses) from three or more content areas are required.

Electives to make a minimum total of 92 hours, 15 of which must be upper division.

### Andrews University Admission and Degree Requirements:

Andrews University requires a minimum cumulative GPA of 3.0 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 (40-41 Hours)

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 3-1/4 years in length. For a complete description of Southern's General Education requirements, refer to pages 32-36.

Required Courses		Hours	General Education Courses		Hours
ALHT 111	Intro to Health Professions	1	COMM 135	Intro to Public Speaking	3
BIOL 101-102	Anatomy & Physiology*	8	ENGL 101-102	College Composition	6
CHEM 151-152	General Chemistry	8	NOND 101	Southern Connections	1
HLED 173	Health for Life**	2	PEAC 225	Fitness for Life	1
MATH 215	Statistics	3	Area A	CPTC 100, 105, 106	3
PETH 315	Physiology of Exercise (W)		Area B	Religion	6
	OR	3-4	Area B	UD Religion	3
BIOL UD	Choose UD Biology		Area C-1	History (Choose 1 from	3
PHYS 127-128	Exploring Physics I & II	6		(HIST 154, 155, 174, or 175)	
PSYC 122	General Psychology	3	Area D	Foreign Lang/Lit/Fine Arts	6
PSYC 128	Developmental Psychology	3		(from 2 different areas)	
PSYC	Elective	3	Area D	UD Lang/Lit/Fine Arts	3
			Area G-3	PE Activity	1
			SOCI/PSYC	UD Elective	3
				UD Electives***	3
				Electives	9-10

\*May be substituted by BIOL 161-162, General Biology

\*\*May be substituted by NRNT 125, Nutrition

\*\*\*May be lower division, but if planning to apply to Andrews University as well, these need to be upper division

Electives to make a minimum total of 92 hours, 12 of which must be upper division

Loma Linda University Admission and Degree Requirements: For admission into the Physical Therapy Program, Loma Linda University requires a 3.00 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.

### Major—A.S. Allied Health Pre-Respiratory Therapy (32 Hours)

**Advisor:** Renita Klischies

Respiratory therapists apply scientific knowledge and theory to practical clinical problems of respiratory care. The respiratory therapist is qualified to assume primary responsibility for all respiratory care modalities, including the supervision of respiratory therapy technician functions. The respiratory therapist may be required to exercise considerable independent clinical judgment, under the supervision of a physician, in the respiratory care of patients. Respiratory therapy personnel are employed in hospitals, nursing care facilities, clinics, physicians' offices, companies providing emergency oxygen services, and municipal organizations.

Southern Adventist University offers a two-year associate degree that provides the prerequisite courses for entrance into the final two years of the bachelors degree program at Loma Linda University. The program can be modified to meet requirements of other schools. For a complete description of Southern's General Education requirements, refer to pages 32-36.

Required Courses		Hours	General Education Courses		Hours
ALHT 111	Intro to Health Professions	1	COMM 135	Intro to Public Speaking	3
BIOL 101-102	Anatomy & Physiology*	8	ENGL 101-102	College Composition	6
BIOL 225	Basic Microbiology	4	NOND 101	Southern Connections	1
CHEM 111-114	Survey of Chem & Lab****	8	PEAC 225	Fitness for Life	1
HLED 173	Health for Life***	2	Area A	CPT 100, 105, 106	3
PHYS 127-128	Exploring Physics I or II**	3	Area B	Religion	6
PSYC 122	General Psychology	3	Area C-1	History (Choose 1 from (HIST 154, 155, 174, or 175)	3
SOCI 150	Cultural Anthropology OR	3	Area D	Foreign Lang/Lit/Fine Arts (from 2 different areas)	6
SOCI 230	Multicultural Relations		Area G-3	PE Activity	1
<b>Cognate:</b>					
Select three (3) hours from the following:		3			
SOCI 125	Intro to Sociology				
SOCI 150	Cultural Anthropology				
SOCI 230	Multicultural Relations				

Three years of high school math including Algebra I, II plus higher math or college algebra taken in college

\*May be substituted by BIOL 161-162, General Biology

\*\*Physics required only if not taken in high school

\*\*\*May be substituted by NRNT 125, Nutrition

\*\*\*\*May be substituted by CHEM 151-152, General Chemistry

Electives to make a total of 64 hours

NOTE: C is the lowest acceptable grade

### Major—A.S. Allied Health Pre-Speech-Language Pathology and Audiology (34-35 Hours)

**Advisor:** Renita Klischies

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 pages 32-36.

Required Courses			Hours	General Education Courses			Hours
ALHT 111	Intro to Health Professions		1	COMM 135	Intro to Public Speaking		3
ALHT 265	T:Intro to Spch-Lang Path		2	ENGL 101-102	College Composition		6
BIOL 101-102	Anatomy & Physiology		8	NOND 101	Southern Connections		
CHEM/MATH/ BIOL/PHYS	Select from CHEM, MATH BIOL, or PHYS*		3-4	PEAC 225	Fitness for Life		1
HLED 173	Health for Life***		2	Area A	CPT 100, 105, 106		3
PHYS 127 or 128	Exploring Physics I or II**		3	Area B	Religion		6
PSYC 122	General Psychology		3	Area C-1	History (Choose 1 from HIST (154, 155, 174, or 175)		3
PSYC 128	Developmental Psychology		3	Area G-3	PE Activity		1
SOCI/PSYC/ PLSC	Select from SOCI, PSYC, or Elective		3		Electives (or MATH) (from 2 different areas)		3
Area D	Foreign Lang/Lit/Fine Arts		6		Electives		3

\*MATH 215 needed for AU. LLU accepts additional Biology/Physics/Math/Chemistry

\*\*Andrews University requires HIST 174 or 175, World Civilization

\*\*\*May be substituted by NRNT 125 Nutrition

Electives to make a total of 64 hours

# BIOLOGY

**Chair:** Keith Snyder

**Faculty:** Joyce L. Azevedo, David Ekkens, L. Ann Foster, Rick Norskov, Richard Seidel, Lee Spencer, Neville Trimm

**Adjunct Faculty:** Roger Hall

## Biology

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 page 26).

Extracurricular opportunities include membership in the Beta Beta Beta national biological honor society, a yearly lecture series on natural history and research topics (see page 24), as well as a premedical preceptorship program (see page 220).



## Assessment

In order to help evaluate the department's teaching effectiveness and the academic achievements of its graduates, all seniors are required to take the ETS Major Field Achievement Test in Biology prior to their final semester. The results of these exams are used by the department staff to evaluate class offerings as well as program requirements.

## Degrees in Biology

### Biology Core (26 Hours)

BIOL 161-162	General Biology	10
BIOL 284	Intro to Biological Research	1
BIOL 286	Biology Seminar	1
BIOL 311	Genetics	4
BIOL 317	Ecology	3
BIOL 412	Cell and Molecular Biology	4
BIOL 424	Issues in Natural Sci/Rel (W)	3

### Biology Elective Areas:

#### Basic Zoology:

BIOL 313	Developmental Biology
BIOL 387	Animal Behavior
BIOL 416	Human Anatomy
BIOL 417	Animal Histology
BIOL 418	Animal Physiology

#### Botany & Ecology:

BIOL 250	Intro to Marine Biology
BIOL 252	Tropical Biology
BIOL 321	Field Ecology
BIOL 408	Flowering Plants and Ferns
BIOL 409	Smoky Mountain Flora

#### Clinical Sciences:

BIOL 315	Parasitology
BIOL 330	General Microbiology
BIOL 340	Immunology

#### Zoology Field:

BIOL 312	Vertebrate Natural History
BIOL 314	Ornithology
BIOL 320	Entomology
BIOL 411	Mammalogy

## Major—B.A. Biology (35 Hours) Chemistry Minor Recommended

Required Biology Courses	Hours	Required Cognates	Hours
Biology Core Courses	26	CHEM 151-152 General Chemistry	8
Biology Electives*	9	CHEM 311-312 Organic Chemistry	8
		MATH 120 Precalculus Algebra**	3
		<b>Highly Recommended</b>	
		MATH 121 Precalculus Trigonometry**	2
		PHYS 211-214 General Physics & Lab	8

\*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.

## Major—B.S. Biology (44 Hours)

Required Biology Courses	Hours	Required Cognates	Hours
Biology Core Courses	26	CHEM 151-152 General Chemistry	8
Biology Electives*	18	CHEM 311-312 Organic Chemistry	8
		MATH 120 Precalculus Algebra**	3
		MATH 121 Precalculus Trigonometry**	2
		MATH 215 Statistics	3
		PHYS 211-214 General Physics & Lab	8
<b>Highly Recommended</b>			
MATH 181 Calculus I	3		
BIOL 476 Research in Biology I	1-2		

\*One course minimum from each of the four biology elective areas.

\*\*Waived if equivalent math was taken in high school with minimum grade of B.

### Major—B.S. Biology, Biomedical Emphasis (44 Hours)

Required Biology Courses		Hours	Required Cognates		Hours
	Biology Core Courses	26	CHEM 151-152	General Chemistry	8
	Biology Electives*	18	CHEM 311-312	Organic Chemistry	8
			CHEM 351	Biochemistry	3
			MATH 120	Precalculus Algebra**	3
			MATH 121	Precalculus Trigonometry**	2
			MATH 215	Statistics	3
			PHYS 211-214	General Physics & Lab	8
			<b>Highly Recommended</b>		
			ACCT 103	College Accounting	3
			BIOL 476	Research in Biology I	1-2
			MGNT 334	Principles of Management	3

\*Select six (6) hours from Basic Zoology and six (6) from Clinical Sciences. Select one course from each of the two remaining elective areas.

\*\*Waived if equivalent math was taken in high school with minimum grade of B.

### Major—B.A. Biology, Teacher Certification, 7-12 (36 Hours)

Secondary certification in Biology requires a baccalaureate degree consisting of 36 credits of specified biology courses, a minor in chemistry, specified cognates, and completion of professional education courses (page 127) 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 Biology Core Courses		Hours	Chemistry Minor		Hours
	Biology Core Courses	26	CHEM 151-152	General Chemistry	8
BIOL 330	General Microbiology	4	CHEM 311-312	Organic Chemistry	8
BIOL 408	Flowering Plants & Ferns		CHEM 351	Biochemistry I	3
	OR	3	<b>Required Cognates</b>		
BIOL 409	Smoky Mt. Flora		ERSC 105	Earth Science	3
BIOL 418	Animal Physiology	3	MATH 215	Statistics	3
			PHYS 127	Exploring Physics I	3

### Minor—Biology (18 Hours)

Required Courses		Hours
BIOL 161-162	General Biology	10
	Biology Electives*	8

\*A minimum of six hours must be upper division.

### 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 [www.http://rosario.wwu.edu](http://rosario.wwu.edu).

# SCHOOL OF BUSINESS AND MANAGEMENT

Accredited through the International Assembly for Collegiate Business Education (IACBE)

**Dean:** Don Van Ornam

**Faculty:** Michael Cafferky, Richard Erickson, H. Robert Gadd, Lisa S. Goolsby, Julie Hyde, Kimberly Miller, Robert Montague, Braam Oberholster, Cliff Olson, Verlyne Starr, Dennis Steele, Leon Weeks, Jon Wentworth

**Adjunct Faculty:** Lawrence Chajj, Herbert Coolidge, Scott Edens, Doug Frood, Henry Hicks, Jennie McClaren, Harry Miller, Mark Waldrop, Robert Young

**Institute for Ethical Leadership:** Carrie Harlin

**Students in Free Enterprise (SIFE):** Carrie Harlin

**Business Advisory Board:** Bud Cason, Joseph Decosimo, Russell Friberg, Charles Martin, Jay McElroy, Bill McGinnis, Chris McKee, Denzil McNeilus, Volker Schmidt

## Advisory Councils:

*Long-Term Care Administration:* Doug Anderson, Robert Broome, Jo Edwards, Michelle Feters, Doug Ford, Jan Rushing, Jeremy Stoner, Mark Waldrop, Robert Young

*Management and Marketing:* Barry Anthony, Brian Bergherm, Ray Childers, Franklin Farrow, Danny Fell, Mike McKee, D. L. (Pete) Johnson, Debbie Shepard

## 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 & 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 advisor. 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 SAU. 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 104, Business Software
- ENGL 102, College Composition
- MATH 107, Survey of Mathematics II or MATH 120, Precalculus Algebra as required by the major selected above.

### **2. Business core and major courses**

Any four of these seven courses must be completed with a four-course GPA of 2.5 and a minimum grade of C in all business courses.

- ACCT 221, Principles of Accounting I
- ACCT 222, Principles of Accounting II
- ACCT 311, Intermediate Accounting I
- BMKT 326, Principles of Marketing
- BUAD 105, Business Spreadsheets
- ECON 224, Principles of Macroeconomics
- 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, Computer Information Systems, Corporate Community Wellness Management, Long-Term Care Administration, Nonprofit Management, and Sports Studies
- Master of Business Administration
- Master of Financial Management
- Master of Science in Administration

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

1. If a student's cumulative GPA in the major falls below 2.25, the student will be placed on School of Business and Management probation and the course load restricted to a maximum of 13 credit hours per semester.
2. A student will remain on probation, including the restricted course load, until the cumulative GPA in the major improves to 2.25. Students must raise their cumulative GPA in the major to a minimum of 2.25 within two semesters or be dismissed from the program.

### **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. The following courses **MUST BE TAKEN** in residence at Southern Adventist University in various School of Business and Management majors:

<b>B.B.A./B.S. Core (all majors)</b>		<b>Hours</b>
BUAD 358	Eth, Soc & Leg Env of Bus (W)	3
BUAD 288/488	Seminar in Business Admin	1
FNCE 315	Business Finance	3
MGNT 464	Business Strategies (W)	3
		<u>10</u>

In addition, each major requires the following courses to be taken in residence:

### **Computer Information Systems Major**

Nine hours in major 9

### **Financial Management Major**

General Concentration  
FNCE 450 Working Capital Management 3  
Six additional hours in concentration 6  
9

Accounting Concentration  
ACCT 450 Advanced Accounting 3  
Six additional hours in concentration 6  
9

Finance Concentration  
FNCE 450 Working Capital Management 3  
Six additional hours in concentration 6  
9

### **Management Major**

General Management Concentration  
MGNT 450 Leadership in Organizations 3  
Six additional hours in concentration 6  
9

## **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.

## **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
- General

<b>B.B.A./B.S. Core, continued</b>		<b>Hours</b>
Entrepreneurship Concentration		
MGNT 371	Prin of Entrepreneurship	3
MGNT 372	Small Business Mgmt	3
	Three additional hours in concentration	3
		<u>9</u>

Human Resource Management Concentration		
MGNT 368	Multicultural Management	3
MGNT 460	Compensation & Benefits	3
	Three hours in a required psychology course	3
		<u>9</u>

International Business Concentration		
MGNT 364	International Bus & Econ	3
MGNT 368	Multicultural Management	3
	Three additional hours in concentration	3
		<u>9</u>

### **Marketing Major**

BMKT 328	Sales Management	3
BMKT 424	Marketing Strategy	3
	Three additional hours in concentration	3
		<u>9</u>

### **Nonprofit Management Major**

BUAD 233	Intro to Nonprofit Sector	3
MGNT 470	Strategic Mgmt Nonprof Org	3
	Three additional hours in concentration	3
		<u>9</u>

### **LTCA Major**

LTCA 431	Gen Admin LTC Facility	3
LTCA 432	Tech Aspects of LTC	3
LTCA 434	Fin Mgmt LTC Facility	3
LTCA 435	Hum Res Mgmt/Mktg LTC Fac	3
LTCA 492	LTC Internship	<u>4-8</u>
		16-20

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.

## Bachelor of Business Administration Degrees

### B.B.A. Core (40 Hours)

Required Core		Hours	Required Cognates		Hours
ACCT 221	Principles of Accounting I	3	BUAD 104	Business Software	3
ACCT 222	Principles of Accounting II	3	BUAD 128	Personal Finance	3
BUAD 105	Business Spreadsheets	3	BUAD 221	Business Statistics	
BUAD 317	Management Info Systems	3		OR	3
BMKT 326	Principles of Marketing	3	MATH 215	Statistics	
BUAD 310	Bus Communications (W)	3	BUAD 412	Preparing to Meet the Firms*	1
BUAD 339	Business Law	3	MATH 120	Precalculus Algebra	3
BUAD 358	Eth, Soc, & Legal Env Bus (W)	3	PSYC	Any 3-hour class	3
BUAD 288/488	Seminar in Business Admin	1			
ECON 224	Prin of Macroeconomics	3			
ECON 225	Prin of Microeconomics	3			
FNCE 315	Business Finance	3			
MGNT 334	Principles of Management	3			
MGNT 464	Business Strategies (W)	3			

*\*Recommend to take in Junior year*

### Major—B.B.A. Computer Information Systems (67 Hours)

Required Courses		Hours	Required Cognate		Hours
	BBA Core	40	CPT 110	Intro to Web Development	1
CPIS 220	Applications Programming	3		OR	
CPIS 315	Req & Systems Analysis	3	JOUR 242	Intro to Web Design	3
CPIS 435	Project Mgmt & Practice	3			
CPIS 442	Software Evaluation	2			
CPT 212	Web Programming	3			
CPTR 103	Principles of Computing	3			
CPTR 124	Fund of Programming	4			
CPTR 319	Database Mgmt Systems	3			
CPTR 327	User Interface Design	3			

### Major—B.B.A. Financial Management (63-66 Hours)

#### General (63 Hours)

Required Courses		Hours
	BBA Core	40
ACCT 311	Intermediate Accounting I	4
ACCT 312	Intermediate Accounting II	4
FNCE 450	Working Capital Mgmt	3
	UD Electives in Acct/Finance	12

Accounting majors need 150 semester hours before sitting for the CPA examination in Tennessee and most other jurisdictions.

**Accounting Concentration (66 Hours)**

Required Courses		Hours
	BBA Core	40
ACCT 311	Intermediate Accounting I	4
ACCT 312	Intermediate Accounting II	4
ACCT 450	Advanced Accounting	3
FNCE 450	Working Capital Mgmt	3
	UD Accounting Electives	12

**Finance Concentration (63 Hours)**

Required Courses		Hours
	BBA Core	40
ACCT 311	Intermediate Accounting I	4
ACCT 312	Intermediate Accounting II	4
ACCT 456	Federal Taxation	3
FNCE 450	Working Capital Mgmt	3
	UD Finance Electives	9

**Major—B.B.A. Management (61-64 Hours)****Entrepreneurship Concentration (64 Hours)**

Required Courses		Hours
	BBA Core	40
ACCT 321	Managerial Accounting	3
MGNT 344	Human Resources Mgmt	3
MGNT 368	Multicultural Management	3
MGNT 371	Prin of Entrepreneurship	3
MGNT 372	Small Busin Management	3
MGNT 420	Organizational Behavior	3
MGNT 450	Leadership in Organizations	3
	UD Business Elective	3

**Human Resource Management Concentration (64 Hours)**

Required Courses		Hours
	BBA Core	40
PSYC 224	Social Psychology	3
PSYC 253	Industrial/Org Psyc	3
PSYC 357	Psychological Testing	3
MGNT 344	Human Resource Mgmt	3
MGNT 368	Multicultural Management	3
MGNT 420	Organizational Behavior	3
MGNT 450	Leadership in Organizations	3
MGNT 460	Compensation & Benefits	3

**General Management (64 Hours)**

Required Courses		Hours
	BBA Core	40
ACCT 321	Managerial Accounting	3
MGNT 344	Human Resources Mgmt	3
MGNT 358	Operations Management	
	OR	3
MGNT 368	Multicultural Management	
MGNT 364	International Bus & Econ	3
MGNT 372	Small Business Management	3
MGNT 420	Organizational Behavior	3
MGNT 450	Leadership in Organizations	3
	UD Management Elective	3

**International Business Concentration (61 Hours)**

Required Courses		Hours
	BBA Core	40
ACCT 321	Managerial Accounting	3
BMKT 375	International Marketing	3
MGNT 344	Human Resources Mgmt	3
MGNT 364	International Busin & Econ	3
MGNT 368	Multicultural Management	3
MGNT 450	Leadership in Organizations	3
	UD Business Elective	3

**Required Cognates**

COMM 330	Intercultural Commun (W)	3
GEOG 204	World Geography	3
RELT 458	World Religions (W)	3
SOCI 150	Cultural Anthropology	3
	Intermediate Foreign Lang	6

**Suggested Cognates**

HIST 174-175	World Civilizations	6
PSYC 231	Multicultural Relations	3
RELP 340	World Missions	3

**Major—B.B.A. Marketing (67 Hours)**

Required Courses		Hours
	BBA Core	40
ACCT 321	Managerial Accounting	3
BMKT 327	Consumer Behavior	3
BMKT 328	Sales Management	3
BMKT 375	International Marketing	3
BMKT 410	Service Marketing	3
BMKT 423	Promotional Strategy	3
BMKT 424	Marketing Strategy	3
BMKT 497	Marketing Research	3
MGNT 420	Organizational Behavior	3

**Required Cognate**

BMKT 345	Marketing Technology	3
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## Bachelor of Science Degrees

### Major—B.S. Business Administration (46 Hours)

Required Courses		Hours	Required Cognates		Hours
ACCT 221	Principles of Accounting I	3	BUAD 104	Business Software	3
ACCT 222	Principles of Accounting II	3	BUAD 128	Personal Finance	3
ACCT 321	Managerial Accounting	3	BUAD 221	Business Statistics	3
BMKT 326	Principles of Marketing	3	BUAD 412	Preparing to Meet the Firms*	1
BUAD 105	Business Spreadsheets	3	MATH 107	Survey of Math II (or above)	3
BUAD 310	Busin Communications (W)	3			
BUAD 317	Management Inf Systems	3			
BUAD 339	Business Law	3			
BUAD 358	Eth, Soc, & Leg Env of Bus (W)	3			
BUAD 288/488	Seminar in Business Admin	1			
ECON 224	Prin of Macroeconomics	3			
ECON 225	Prin of Microeconomics	3			
FNCE 315	Business Finance	3			
MGNT 334	Principles of Management	3			
MGNT 464	Business Strategies (W)	3			
	UD Elective in Business	3			

*\*Recommend to take in junior year*

### Major—B.S. Long-Term Care Administration (55-59 Hours)

Required Courses		Hours	Required Cognates		Hours
ACCT 221	Principles of Accounting I	3	MATH 107	Survey of Math II (or above)	3
ACCT 222	Principles of Accounting II	3	PSYC 349	Aging and Society (W)	3
ACCT 321	Managerial Accounting	3			
BUAD 105	Business Spreadsheets	3			
BMKT 326	Principles of Marketing	3			
BUAD 310	Busin Communications (W)	3			
BUAD 339	Business Law	3			
BUAD 358	Eth, Soc, & Leg Env of Bus (W)	3			
ECON 224	Prin of Macroeconomics	3			
ECON 225	Prin of Microeconomics	3			
FNCE 315	Business Finance	3			
LTCA 431	Gen Adm of LT Care Facility	3			
LTCA 432	Tech Aspects of LT Care	3			
LTCA 434	Fin Mgmt of LT Care Facility	3			
LTCA 435	Hum Res Mgt & Mrkg LT Fac	3			
LTCA 492	LT Care Adm Intern	4-8			
MGNT 334	Principles of Management	3			
MGNT 464	Business Strategies (W)	3			

*\*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 required courses excluding BUAD 317, BUAD 310, and BUAD 488, 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, 432, 434, 435, 492; MGNT 344).

This exception 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.

**B.S. Nonprofit Administration and Development (64 Hours)**

<b>Required Core</b>		<b>Hours</b>	<b>Required Cognates</b>		<b>Hours</b>
ACCT 221	Principles of Accounting I	3	BUAD 104	Business Software	3
ACCT 222	Principles of Accounting II	3	BUAD 128	Personal Finance	3
BMKT 326	Principles of Marketing	3	BUAD 412	Preparing to Meet the Firms*	1
BUAD 233	Intro to the Nonprofit Sector	3	MATH 107	Survey of Math II	3
BUAD 310	Business Comm (W)	3			
BUAD 339	Business Law	3			
BUAD 288/488	Seminar in Business Admin	1			
ECON 224	Prin of Macroeconomics	3			
MGNT 334	Principles of Management	3			
MGNT 344	Human Resource Mgmt	3			
MGNT 450	Leadership in Organizations	3			
MGNT 470	Strategic Mgmt Nonprofit Org	3			
PREL 235	PR Principles & Theory	3			
PREL 368	Fund Development	3			

\*Recommend to take in junior year

**Communications Concentration (64 Hours)**

	Nonprofit Adm & Dev Core	40
Select twenty-four (24) hrs from the following:		24
COMM 336	Interpersonal Communication	
COMM 397	Communication Research	
JOUR 105	Writing for the Media	
JOUR 208	Publication Tools & Tech	
MGNT 492	Management Internship	
PREL 344	Fundamentals of Advertising	
PREL 406	Persuasion & Propaganda (W)	
PREL 482	The PR Campaign	
PREL 485	Public Relations Techniques	3

**International/Community Relations Concentration (64 Hours)**

	Nonprofit Adm & Dev Core	40
Select twenty-four (24) hrs from the following:		24
COMM 330	Intercultural Comm (W)	
GEOG 204	World Geography	
MGNT 364	International Bus & Econ	
MGNT 368	Multicultural Management	
MGNT 492	Management Internship	
RELT 458	World Religions (W)	
SOCI 230	Multicultural Relations	
	Intermediate Foreign Lang	

**Nonprofit Leadership Concentration (64 Hours)**

	Nonprofit Adm & Dev Core	40
ACCT 321	Managerial Accounting	3
BUAD 105	Business Spreadsheets	3
BUAD 221	Business Statistics	3
FNCE 450	Working Capital Mgmt	3
MGNT 371	Prin of Entrepreneurship	3
Select nine (9) hours from the following:		9
BMKT 410	Service Marketing	
BUAD 358	Eth, Soc & Legal Env Bus (W)	
MGNT 358	Operations Management	
MGNT 372	Small Business Management	
MGNT 420	Organizational Behavior	
MGNT 492	Management Internship	

**Combined Majors—B.S. Business Administration and Public Relations (85 Hours)****Business Administration (40 Hours)**

<b>Required Courses</b>		<b>Hours</b>
ACCT 221	Principles of Accounting I	3
ACCT 222	Principles of Accounting II	3
ACCT 321	Managerial Accounting	3
BUAD 105	Business Spreadsheets	3
BUAD 310	Business Communication (W)	3
BUAD 317	Management Inf Systems	3
BUAD 339	Business Law	3
BUAD 288/488	Seminar in Business Admin	1
BMKT 326	Principles of Marketing	3
ECON 224	Prin of Macroeconomics	3
ECON 225	Prin of Microeconomics	3
FNCE 315	Business Finance	3
MGNT 334	Prin of Management	3
MGNT 464	Business Strategies (W)	3

<b>Required Cognates</b>		<b>Hours</b>
BUAD 104	Business Software	3
BUAD 128	Personal Finance	3
BUAD 221	Business Statistics	3
BUAD 412	Preparing to Meet the Firms*	1

\*Recommend to take in junior year

**Public Relations (45 Hours)**

Required Courses		Hours
COMM 103	Intro to Communication	3
COMM 397	Communication Research	3
COMM 406	Persuasion & Propaganda (W)	3
JOUR 105	Writing for the Media	3
JOUR 205	News Reporting	3
JOUR 208	Publication Tools & Tech	3
JOUR 242	Intro to Web Design	3
JOUR 313	Publication Editing	3
JOUR 488	Mass Comm & Society (W)	3
PHTO 125	Intro to Photography	3
PREL 235	Public Rel Prin & Theory	3
PREL 344	Fundamentals of Advertising	3
PREL 482	Public Relations Campaign	3
PREL 485	Public Relations Techniques	3

Required Courses, continued		Hours
<i>Select three (3) hours from the following:</i>		3
BUAD 358	Eth, Soc, & Leg Env of Bus (W)	
JOUR 427	Mass Media Law & Ethics	

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 requirements from a single major in Business Administration. May require an additional semester to the program.

**Majors—B.S. Business Administration and A.T. Auto Service (80 Hours)****Business Administration (43 Hours)**

Required Courses		Hours
ACCT 221	Principles of Accounting I	3
ACCT 222	Principles of Accounting II	3
ACCT 321	Managerial Accounting	3
BUAD 105	Business Spreadsheets	3
BUAD 310	Business Communication (W)	3
BUAD 317	Management Information Sys	3
BUAD 339	Business Law	3
BUAD 358	Eth, Soc, & Leg Env of Bus (W)	3
BUAD 288/488	Seminar in Business Admin	1
BMKT 326	Principles of Marketing	3
ECON 224	Prin of Macroeconomics	3
ECON 225	Prin of Microeconomics	3
FNCE 315	Business Finance	3
MGNT 334	Principles of Management	3
MGNT 464	Business Strategies (W)	3
Required Cognates		Hours
BUAD 104	Business Software	3
BUAD 128	Personal Finance	3
BUAD 221	Business Statistics	3
*BUAD 412	Preparing to Meet the Firms	1

\*Recommend to take in Junior year  
May require an additional semester to the program.

**Major—A.S. Accounting (30 Hours)**

Required Courses		Hours
ACCT 221	Principles of Accounting I	3
ACCT 222	Principles of Accounting II	3
ACCT 311	Intermediate Accounting I	4
ACCT 312	Intermediate Accounting II	4
ACCT 323	Cost Accounting	2
ACCT 326	Accounting Software Tools	2
BUAD 105	Business Spreadsheets	3
BUAD 358	Eth, Socl & Legal Env Bus (W)	3
ECON 224	Prin of Macroeconomics	3
	Business Elective	3

**Auto Service (37 Hours)**

Required Courses		Hours
TECH 114	Oxy-Acetylene Welding	1
TECH 115	Arc Welding	2
TECH 166	Auto Electrical Systems	2
TECH 167	Suspension, Steering & Align	3
TECH 168	Manual Drive Train & Axles	3
TECH 175/375	Engine Rebuild & Machining	4
TECH 178	Heating & Air Conditioning	2
TECH 230	Automatic Transmission	3
TECH 264	Automotive Repair	3
TECH 273	Estimating & Auto Bus Prac	1
TECH 276/377	Engine Performance & Cptrs	3
TECH 277	Eng Fuel & Emission Controls	4
TECH 291	Practicum	3
TECH 299	Adv Engine Performance	3
Required Cognates		Hours
MGNT 371	Prin of Entrepreneurship	3
MGNT 372	Small Business Management	3

Required Cognates		Hours
BUAD 104	Business Software	3
BUAD 128	Personal Finance	3

## Major—A.S. Business Administration (30 Hours)

Required Courses		Hours
ACCT 221	Principles of Accounting I	3
ACCT 222	Principles of Accounting II	3
ACCT 321	Managerial Accounting	3
BMKT 326	Principles of Marketing	3
BUAD 105	Business Spreadsheets	3
BUAD 310	Bus Communications (W)	3
ECON 224	Prin of Macroeconomics	3
ECON 225	Prin of Microeconomics	3
MGNT 334	Prin of Management	3
	Business Elective	3

(Recommended elective BMKT 328 Sales Marketing)

Required Cognates		
BUAD 104	Business Software	3
BUAD 128	Personal Finance	3

## Minors in Business Administration, Entrepreneurial Management, Management, and Marketing

### Minor—Business Administration (18 Hours)

Required Courses		Hours
ACCT 221	Principles of Accounting I	3
ACCT 222	Principles of Accounting II	3
ECON 224	Principles of Macroeconomics	3
MGNT 334	Principles of Management	3
	OR	3
MGNT 344	Human Resource Mgmt	3
	UD Electives in Business	6

### Minor—Entrepreneurial Management (18 Hours)

Required Courses		Hours
*ACCT 103	College Accounting	3
*ECON 213	Survey of Economics	3
MGNT 371	Prin of Entrepreneurship	3
MGNT 372	Small Business Management	3
	Electives in Mgmt/Mktg	6

\* Does not apply for business majors

### Minor—Human Resource Management (24 Hours)

Required Courses		Hours
BUAD 310	Bus Communications (W)	3
BUAD 358	Eth, Soc & Legal Env Bus (W)	3
MGNT 334	Principles of Management	3
MGNT 344	Human Res Management	3
MGNT 420	Organizational Behavior	3
PSYC 224	Social Psychology	3
PSYC 253	Industrial/Org Psyc	3
PSYC 357	Psychological Testing	3

Required in General Education		Hours
PSYC 122	General Psychology	3

### Minor—Management (18 Hours)

Required Courses		Hours
ACCT 221	Principles of Accounting	3
MGNT 334	Principles of Management	3
MGNT 344	Human Resource Mgmt	3
MGNT 371	Prin of Entrepreneurship	3
	OR	3
MGNT 372	Small Business Management	3
	UD Electives Business	6

### Minor—Marketing (18 Hours)

Required Courses		Hours
ACCT 221	Principles of Accounting	3
BMKT 326	Principles of Marketing	3
BMKT 327	Consumer Behavior	3
BMKT 328	Sales Management	3
BMKT 424	Marketing Strategy	3
	UD Electives in Marketing	3

Recommended Cognate		Hours
ECON 225	Principles of Microeconomics	3

# CHEMISTRY

**Chair:** Rhonda Scott

**Faculty:** Loren Barnhurst, Brent Hamstra, Mitch Menzmer, Bruce Schilling

## Chemistry

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 40<sup>th</sup> percentile on these exams and achieve a grade of C- or above in their chemistry courses. Students who score below the 40<sup>th</sup> percentile but have passed the corresponding course will be given self-paced instructional materials to strengthen areas of identified weakness.

## Major—B.A. Chemistry (30 hours)

Required Courses		Hours	Required Cognates		Hours
CHEM 151-152	General Chemistry	8	MATH 181	Calculus I	3
CHEM 311-312	Organic Chemistry	8	MATH 182	Calculus II	3-4
CHEM 315	Quantitative Analysis	4		OR	
CHEM 385	Chemistry Seminar	1	MATH 215	Statistics	
CHEM 411	Physical Chemistry I (W)	4	PHYS 211-212	General Physics	6
CHEM 497	Intro to Research (W)	1	PHYS 213-214	General Physics Lab	2
	Chemistry Electives	4			

**NOTE:** Some upper division courses are offered in alternate years; the student should plan accordingly.

**Major—B.S. Chemistry (40 Hours)**

Required Courses		Hours	Required Cognates		Hours
CHEM 151-152	General Chemistry	8	MATH 181	Calculus I	3
CHEM 311-312	Organic Chemistry	8	MATH 182	Calculus II	4
CHEM 315	Quantitative Analysis	4	MATH 315	Differential Equations	3
CHEM 321	Instrumental Analysis	4	PHYS 211-212	General Physics	6
CHEM 351	Biochemistry I	3	PHYS 213-214	General Physics Lab	2
CHEM 385	Chemistry Seminar	1	PHYS 215-216	General Physics Calc Appl	2
CHEM 411	Physical Chemistry I (W)	4			
CHEM 415	Physical Chemistry II	3			
CHEM 435	Inorganic Chemistry	4			
CHEM 497	Intro to Research (W)	1			

**NOTE:** Some upper division courses are offered in alternate years; the student should plan accordingly.

**Major—B.S. Chemistry, Biochemistry Emphasis (40 Hours)**

Required Courses		Hours	Required Cognates		Hours
BIOL 311	Genetics	4	BIOL 161,162	General Biology	10
CHEM 151-152	General Chemistry	8	MATH 181	Calculus I	3
CHEM 311-312	Organic Chemistry	8	MATH 182	Calculus II	
CHEM 315	Quantitative Analysis	4		OR	3-4
CHEM 351, 352	Biochemistry	6	MATH 215	Statistics	
CHEM 353	Biochemistry Lab	1	PHYS 211-212	General Physics	6
CHEM 385	Chemistry Seminar	1	PHYS 213-214	General Physics Lab	2
CHEM 411	Physical Chemistry (W)	4			
CHEM 497	Intro to Research (W)	1			
	Chemistry Electives	3			
			Select one (1) course from the following:		3-4
			BIOL 340	Immunology	3
			BIOL 412	Cell and Molecular Biology	4
			BIOL 418	Animal Physiology	3

**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 182. Some upper division courses are offered in alternate years; the student should plan accordingly.

**Major—B.A. Chemistry, Teacher Certification (30 Hours)**

Required Courses		Hours	Required Cognates		Hours
CHEM 151-152	General Chemistry	8	BIOL 161	General Biology	5
CHEM 311-312	Organic Chemistry	8	ERSC 105	Earth Science	
CHEM 315	Quantitative Analysis	4		OR	3
CHEM 351	Biochemistry	3	PHYS 155	Descriptive Astronomy: Creation and Cosmology	
CHEM 353	Biochemistry Laboratory	1			
CHEM 385	Chemistry Seminar	1	MATH 181	Calculus I	3
CHEM 411	Physical Chemistry I (W)	4	MATH 182	Calculus II	
CHEM 497	Intro to Research (W)	1		OR	3-4
			MATH 215	Statistics	
			PHYS 211-212	General Physics	6
			PHYS 213-214	General Physics Lab	2
			RELT 317	Issues in Phys Sci & Rlgn	3

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 (35 hours, listed on page 127) 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).

### Endorsement for Teacher Certification (20 hours)

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	Hours
CHEM 151-152 General Chemistry	8
CHEM 311-312 Organic Chemistry	8
Upper Division*	<u>4</u>
	20

*\*The upper division course should be carefully chosen in consultation with your advisor 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 351 Biochemistry I.*

### Minor—Chemistry (18 Hours)

Required Courses	Hours
CHEM 151-152 General Chemistry	8
*Chemistry Electives	10

*\*A minimum of six hours must be upper division.*

# SCHOOL OF COMPUTING

**Dean:** Rick Halterman

**Faculty:** Scot Anderson, John Beckett, Tyson Hall, Timothy D. Korson, P. Willard Munger

## 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. degree 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. degree 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. degree 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.

## Admissions and Graduation 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 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.

## 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 Network Usage Policy.

See <http://www.computing.southern.edu/netpolicy>. A hard copy of the policy is available from the Campus Card Desk.

## Programs in Computing

### Major—B.A. Computer Science (30 Hours)

Required Courses		Hours	Required Cognates		Hours
CPHE 200	Digital Logic and Design	4	MATH 181	Calculus I	3
CPTR 103	Principles of Computing	3	MATH 215	Statistics	3
CPTR 124	Fund of Programming	4	MATH 280	Discrete Math Structures	3
CPTR 215	Fund of Software Design	4			
CPTR 314	Data Struc, Alg, & Know Sys	4			
CPTR 319	Database Mgmt Systems	3			
CPTR 365	Operating Systems	3			
CPTR 405	Organization of Prog Lang	3			
CPTR 486	Senior Seminar (W)	2			

### Major—B.S. Computer Science (47-49 Hours)

Required Core		Hours	Required Core continued		Hours
CPHE 200	Digital Logic and Design	4	CPTR 314	Data Struc, Algor& Know Sys*	4
CPHE 222	Org, Arch & Assembly Lang	4	CPTR 365	Operating Systems	3
CPTR 103	Principles of Computing	3	CPTR 486	Senior Seminar (W)	2
CPTR 124	Fund of Programming	4	CPTR 488	Senior Project	2
CPTR 215	Fund of Software Design	4			

\*CPTR 314 is recommended in sophomore year

### Computer Science Concentration (47 Hours)

Required Courses		Hours
	Core	30
CPTR 209	Intro to Software Engineering	4
CPTR 319	Database Mgmt Systems	3
CPTR 405	Organization of Prog Lang	3
	Cptr Electives (CPHE/CPTR)	7
	(3 hrs must be UD; 4 hrs may be from CPHE)	
Required Cognates		Hours
MATH 181	Calculus I	3
MATH 182	Calculus II	4
MATH 200	Elementary Linear Algebra	2
MATH 215	Statistics	3
MATH 280	Discrete Math Structures	3

Select twelve (12) hours from the following courses including one two-semester sequence with lab:

BIOL 161,162 and any upper division BIOL **except** BIOL 421 or 424; CHEM 151,152 and any upper division CHEM course; PHYS 12,213,214,215,216 and any upper division PHYS course.

Select an additional three (3) hours from the above list, MATH 218, or any upper division MATH course.

### Embedded Systems Concentration (49 Hours)

Required Courses		Hours
	Core	30
CPHE 310	Intro to Signal Processing	4
CPHE 320	Circuit Analysis	4
CPHE 380	Microcontroller Design	4
CPHE 410	Computer Interfacing	4
CPTR 328	Principles of Networking	3
Required Cognates		Hours
ENGR 121	Intro to Engineering	1
MATH 181	Calculus I	3
MATH 182	Calculus II	4
MATH 200	Elementary Linear Algebra	2
MATH 215	Statistics	3
MATH 280	Discrete Math Structures	3
MATH 315	Differential Equations	3
PHYS 211-214	Gen Physics with Lab	8

Select from the following courses: 4-5

BIOL 161 General Biology  
CHEM 151 General Chemistry

**Major—B.S. Computer Systems Administration (47 Hours)**

Required Courses		Hours	Required Cognates		Hours
CPI5 210	Inform Tech Hardwr & Softwr	3	BUAD 126	Intro to Business	3
CPI5 442	Software Evaluation	2	JOUR 242	Intro to Web Design	3
CPT2 212	Web Programming	3	MATH 120	Precalculus Algebra	3
CPT2 228	Becoming a Power User	3	MATH 215	Statistics	3
CPT2 254	UNIX Systems Administration	3	PSYC	Any 3 hr Psychology course	3
CPT2 316	Application Software Support	3			
CPT2 433	Network Administration	3			
CPTR 103	Principles of Computing	3			
CPTR 124	Fund of Programming	4			
CPTR 319	Database Mgt Systems	3			
CPTR 327	User Interface Design	3			
CPTR 328	Principles of Networking	3			
CPTR 427	Network Security	3			
CPTR 446	Web Services	3			
CPTR 486	Senior Seminar (W)	2			
	Computer Elective	3			

**Major—B.B.A. Computer Information Systems (67 Hours)****B.B.A. Core (40 Hours)**

Required Core		Hours	Required Cognates		Hours
ACCT 221	Principles of Accounting I	3	BUAD 104	Business Software	3
ACCT 222	Principles of Accounting II	3	BUAD 128	Personal Finance	3
BMKT 326	Principles of Marketing	3	BUAD 221	Business Statistics	
BUAD 105	Business Spreadsheets	3		OR	3
BUAD 310	Bus Communications (W)	3	MATH 215	Statistics	
BUAD 317	Management Info Systems	3	*BUAD 412	Preparing to Meet the Firms	1
BUAD 339	Business Law	3	MATH 120	Precalculus Algebra	3
BUAD 358	Eth, Soc, & Legal Env Bus (W)	3	PSYC	Any 3-hour class	3
BUAD 288/488	Seminar in Business Admin	1			
ECON 224	Prin of Macroeconomics	3			
ECON 225	Prin of Microeconomics	3			
FNCE 315	Business Finance	3			
MGNT 334	Principles of Management	3			
MGNT 464	Business Strategies (W)	3			

*\*Recommend to take in Junior year*

Required Courses		Hours	Required Cognate		Hours
	BBA Core	40	CPT2 110	Web Development	1
CPI5 220	Applications Programming	3		OR	
CPI5 315	Req & Systems Analysis	3	JOUR 242	Intro to Web Design	3
CPI5 435	Project Mgmt & Practice	3			
CPI5 442	Software Evaluation	2			
CPT2 212	Web Programming	3			
CPTR 103	Principles of Computing	3			
CPTR 124	Fund of Programming	4			
CPTR 319	Database Mgmt Systems	3			
CPTR 327	User Interface Design	3			

**Minor—Computing (18 Hours)**

Required Courses		Hours
CPTR 103	Principles of Computing	3
CPTR 124	Fund of Programming	4
	Electives	11

(A minimum of 6 hrs must be UD)

# SCHOOL OF EDUCATION AND PSYCHOLOGY

**Dean:** John Wesley Taylor, V

**Faculty:** Krystal Bishop, Charles D. Burks, Myrna Colon, Robert Coombs, Alberto dos Santos, Alfredo Fuentes, Ileana Freeman-Gutierrez, Michael Hills, Colleen Mitchell, Cathy Olson, Carleton Swafford, Ruth WilliamsMorris

## Philosophy and Objectives

The School of Education and Psychology subscribes to the philosophy that human beings were created in the image of God but as a result of willful disobedience sin has marred their God-given attributes and divine likeness. This philosophy recognizes that the object of education is also the object of redemption—to restore in people the image of their Maker and bring them back to the perfection in which they were created. Thus the work of redemption is also the work of education, involving the development of the whole person—physical, mental, spiritual, and social.

The teacher education, outdoor leadership, and psychology programs are founded upon the basic assumption that there is a body of critical knowledge and practice for the professions of teaching, outdoor leadership, and psychology.

## Statement of Mission

The mission of the School of Education and Psychology at Southern Adventist University is to prepare students at both undergraduate and graduate levels who can function effectively in a culturally pluralistic society and who are dedicated to assisting individuals in reaching their maximum potential in service to God and humanity.

## 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.

Education students will be required to provide evidence of having passed a fingerprinted Tennessee Board of Investigation background check prior to entering classrooms. Students admitted to Student Teaching are encouraged to 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:

1. Master of Science in Education (five emphases)
  - Curriculum and Instruction
  - Educational Administration and Supervision
  - Inclusive Education
  - Literacy Education
  - Outdoor Teacher Education
2. 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 and education in specialized fields of psychology at the graduate level.

## Bachelor of Arts Degree in Psychology

The B.A. degree in psychology is recommended for students who wish to become psychologists or professional counselors, 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 such as law, business, English, or history.

### Major—B.A. Psychology (33 Hours)

Major	33
Cognates	12-13
Minor	18
General Education	<u>61</u>
TOTAL	124-125

Required Courses		Hours	Required Cognates		Hours
PSYC 122	General Psychology	3	BIOL 421	Issues in Science & Soc (W)	3
PSYC 128	Developmental Psychology	3	RELT 373	Christian Ethics	3
PSYC 227	Cognitive Psychology	3	MATH	One math course (MATH 106 or higher)	3
PSYC 297	Research Design & Stats I	3		Science course with lab	3-4
PSYC 315	Abnormal Psychology	3			
PSYC 346	Intro to Personality Theories	3			
PSYC 357	Psychological Testing	3			
PSYC 416	History & Systems of Psyc (W)	3			
PSYC 490	Psychology Seminar	1			
PSYC 491	Psychology Practicum*	2			
PSYC 497	Rsrch Design & Stats II (W)	3			
PSYC	Psychology Electives	3			

\*Start in the junior year

## Bachelor of Science Degree in Psychology

### Industrial/Organizational Psychology Concentration

This B.S. degree is recommended for students planning to gain admission into graduate programs in industrial or 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, ergonomics, or business related fields. No foreign language is required for this major. However, a foreign language is encouraged as an elective.

### Major—B.S. Psychology, Industrial/Organizational Concentration (57 Hours)

Psychology	39
Business	18
Cognates	12-13
General Education	55-56
TOTAL	124

#### Required Courses Hours

##### Psychology (39 hours)

PSYC 122	General Psychology	3
PSYC 224	Social Psychology	3
PSYC 227	Cognitive Psychology	3
PSYC 231	Multi-Cultural Relations	3
PSYC 253	Industrial/Organization Psyc	3
PSYC 297	Rsrch Design & Statistics I	3
PSYC 315	Abnormal Psychology	3
PSYC 346	Intro to Personality Theories	3
PSYC 357	Psychological Testing	3
PSYC 416	Hist & Systems of Psyc (W)	3
PSYC 460	Group Processes	3
PSYC 490	Psychology Seminar	1
PSYC 491	Psychology Practicum*	2
PSYC 497	Rsrch Design & Stats II (W)	3

#### Required Courses Hours

##### Business and Management (18 hours)

BMKT 327	Consumer Behavior**	3
BUAD 358	Eth, Soc & Leg Env of Bus(W)	3
ECON 213	Survey of Econ (or equiv)	3
MGNT 334	Principles of Management	3
MGNT 344	Human Resource Mgmt	3
MGNT 420	Organizational Behavior	3

##### Required Cognates

BIOL 421	Issues in Sci & Society(W)	3
RELT 373	Christian Ethics	3
MATH	One math course (MATH 106 or higher)	3
	Science Course with Lab	3-4

\*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.

### Psychobiology Concentration

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, and health psychology. This degree may also be desirable for those students planning for medical careers.

**Major—B.S. Psychology, Psychobiology Concentration (60-62 Hours)\***

Psychology	37
Biology	23-25
Cognates	17
General Education	<u>45-47</u>
TOTAL	124

\*Students should avail themselves of advisement in both psychology and biology.

**Required Courses Hours****Psychology (37 hours)**

PSYC 122	General Psychology	3
PSYC 227	Cognitive Psychology	3
PSYC 297	Research Design & Stats I	3
PSYC 326	Physiological Psychology	3
PSYC 384	Experimental Psychology	3
PSYC 387	Comparative Psychology	3
PSYC 390	Health Psychology	3
PSYC 416	Hist & Systems of Psyc (W)	3
PSYC 490	Psychology Seminar	1
PSYC 497	Rsrch Design & Stats II (W)	3
	Psychology Electives	1

Select three (3) hours from the following: 3

PSYC 128	Developmental Psychology
PSYC 349	Aging and Society (W)
PSYC 422	Issues in Adolescence

Select three (3) hours from the following: 3

PSYC 224	Social Psychology
PSYC 315	Abnormal Psychology
PSYC 346	Intro to Personality Theories

**Required Courses Hours****Biology (23-25 hours)**

BIOL 161,162	General Biology	10
BIOL 311	Genetics	4

Select one of the following course sequences:

BIOL 101,102	Anatomy & Physiology	4,4
	OR	
BIOL 416,418	Hum Anatomy/Animal Phys	3,3

Select three (3) hours from the following: 3

BIOL 313	Developmental Biology
BIOL 340	Immunology
BIOL 412	Cell and Molecular Biology
BIOL 417	Animal Histology

**Required Cognates**

CHEM 151,152	General Chemistry	8
HMNT 210	Introduction to Philosophy	3
MATH	One MATH course (MATH 120 or higher)	3
RELT 421	Issues in Science & Soc (W)	3

**Minor—Industrial/Organizational Psychology (21 Hours)****Required Courses Hours**

MGNT 334	Principles of Management	3
MGNT 344	Human Resource Mgmt	3
MGNT 420	Organizational Behavior	3
PSYC 224	Social Psychology	3
PSYC 253	Industrial/Org Psyc	3
PSYC 297	Rsrch Design & Statistics I	3
PSYC 357	Psychological Testing	3

**Required in General Ed**

(pre-req for PSYC 297, 357)

AREA F	
PSYC 122	General Psychology

**Strongly Recommended**

AREA C	
ECON 213	Survey of Economics (or equivalent)

**Minor—Psychology (18 Hours)****Required Courses Hours**

PSYC 122	General Psychology	3
PSYC 128	Developmental Psychology	3
PSYC	Electives (6 hrs must be UD)	12

## Assessment of Psychology Majors

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 demonstrates both knowledge and application of various issues in the field of psychology from the student's point of view. This paper is part of the capstone course, History and Systems of Psychology.
- The Major Field Test is produced by the Educational Testing Service (ETS) and is administered by the School of Education and Psychology. All psychology seniors are required to complete this examination during their final semester of enrollment.

## Undergraduate Outdoor Leadership Degree

### Bachelor of Science Degree in Outdoor Leadership

The Outdoor Leadership degree program prepares students for a profession in or related to the outdoors. A student may choose from several areas of concentration. Each area allows the student to develop skills in wilderness experiences and obtain outdoor professional certification necessary for employment in the area of choice. Graduates from this program find opportunities in state and national parks, environmental interpretative centers, wilderness and adventure medicine, camps, outdoor schools, rescue and relief services, adventure business, therapeutic outdoor programs, and mission organizations.

### Major—B.S. Outdoor Emergency Services (72 Hours)

Outdoor Leadership Courses	34
Nursing A.S.	38
Required Cognates	33
General Education	31
TOTAL	136

#### Outdoor Leadership Required Courses Hours

EDOE 301	Outdoor Ministries	3
OUTL 136	Survey of Outdoor Adventures	3
OUTL 218	Fund of Outdoor Leadership	3
OUTL/PSYC 221	Challenge Course Facilitator	3
OUTL 318	Wilderness First Responder OR	3
OUTL 330	Wilderness EMT	
OUTL 356	Outdoor Leadership Field Exp	3
OUTL 391	Outdoor Leadership Sem (W)	1
OUTL 430	Adventure Leadership	3
	Electives from Skills/ Certification Courses, (10 hrs must be UD)	12

#### Required Cognates Hours

BIOL 101-102	Anatomy & Physiology	8
BIOL 225	Basic Microbiology	4
CHEM 111-112	Survey of Chemistry I, II	6
NRNT 125	Nutrition	3
NRSNG 321	Mission Nursing	3
PSYC 128	Developmental Psychology	3
RELT 373	Christian Ethics	3
SOCI 349	Aging & Society (W)	3

#### A.S. Nursing Required Courses Hours

NRSNG 106	Fundamentals I	4
NRSNG 107	Fundamentals II	4
NRSNG 126	Adult Health I	4
NRSNG 130	Mental Health	4
NRSNG 191	Nursing Practicum	1
NRSNG 212	Childbearing Family	4
NRSNG 226	Adult Health II	4
NRSNG 231	Child Health	4
NRSNG 240	Computers in Nursing	1
NRSNG 305	Adult Health III	4
NRSNG 309	Nursing Seminar	4

#### Required General Education Hours

COMM 135	Intro to Public Speaking	3
CPT 100	Computer Concepts	1
CPT 106	Intro to Spreadsheets	1
ENGL 101-102	College Composition	6
NOND 101	Southern Connections	1
PEAC 225	Fitness for Life	1
Area A-2	Mathematics (if needed)	3
Area B	Religion	9
Area C-1	History	3
Area C or D	Hist/Polit/Econ/Lang/Lit/FA	3



**Major—B.S. Outdoor Leadership (61-67 Hours)**

Major	43
Concentration/General Electives	18-24
Required Cognates	9
General Education	<u>48-54</u>
TOTAL	124

Required Core Courses	Hours
EDOE 301 Outdoor Ministries	3
EDOE 345 Environmental Education	2
EDUC 325 Phil of Christian Educ (W)	2
OUTL 136 Surv of Outdoor Adventures	3
OUTL 218 Fund of Outdoor Leadership	3
OUTL/PSYC 221 Challenge Course Facilitator	3
OUTL 391 Outdoor Education Sem (W)	1
OUTL 430 Adventure Leadership	3
OUTL 492 Outdoor Education Intern	10
OUTL Electives	10

Select three (3) hours from the following:	3
OUTL 318 Wilderness First Responder	
OUTL 330 Wilderness EMT	

This degree may be customized by selecting one of the following concentrations in lieu of 18-24 hours of general electives.

Adventure Therapy Concentration	Hours
PSYC 122 General Psychology	3
PSYC 128 Developmental Psychology	3
PSYC 377 Fund of Counseling (W)	3
PSYC 422 Issues in Adolescence	3
PSYC 460 Group Processes	3
PSYC 479 Family Counseling	3
	<u>18</u>

Business Concentration	Hours
Select any School of Business and Management minor	18-24

Cultural Interpreter Concentration	Hours
Any HIST or GEOG courses	10
UD HIST or GEOG courses	8
	<u>18</u>

Naturalist Concentration	Hours
BIOL 161,162 General Biology	10

Select three (3) hours from:	3
Any Ecology Course	

Select six (6) hours from:	6
Any Botany, Ecology, or Zoology Field Courses	<u>19</u>

Outdoor Ministry Concentration	Hours
RELP 251 Intro to Youth Ministry	3
RELP 264 Christian Witnessing	3
Any RELB, RELP or RELT	4
UD RELB, RELP or RELT	8
	<u>18</u>

Technology Concentration	Hours
Select twelve (12) hours lower division Technology classes	12
Select six (6) hours upper division Technology classes	6
	<u>18</u>

Required Cognates	Hours
ERSC 105 Earth Science	3
PSYC 122 General Psychology*	
	3
OR	
PSYC 128 Developmental Psychology*	
PHYS/RELT 317 Issues in Physical Sci & Rlgn	
	3
OR	
BIOL/RELT 421 Issues in Science & Soc (W)	

\*Both classes required for Adventure Therapy Concentration

Public Relations/Advertising Concentration	Hours
COMM 103 Intro to Communication	3
JOUR 105 Writing for the Media	3
JOUR 205 News Reporting	3
JOUR 208 Publication Tools & Tech	3
PREL 235 Public Rel Prin & Theory	3
PREL 344 Fundamentals of Advertising	3

Select six (6) hours from the following:	6
JOUR 427 Mass Media Law & Ethics	
JOUR 488 Mass Comm & Society (W)	
PHOT 125 Intro to Photography	
PREL 355 Advertising Copywriting	
COMM 406 Persuasion & Propaganda (W)	
PREL 485 Public Relations Techniques	
	<u>24</u>

Recreation Concentration	Hours
ACCT 103 College Accounting	3
HLNT 135 Nutrition for Life	3
RECR 210 Aerobics Instructor Trainer	2
RECR 254 Lifeguarding	1
RECR 255 Water Safety Instruction	1
RECR 268,269 Officiating Sports Analysis	2,2
RECR 325 Personal Trainer	2
RECR 491 Recreation Practicum	2

Select six (6) hours from the following:	6
OUTL 148 Basic Horsemanship	
OUTL 156 Land Navigation	
PEAC 141 Fly-Fishing	
PEAC 142 Canoeing	
PEAC 146 White Water Rafting Guide	
PEAC 151 Scuba Diving	
PEAC 155 Basic Kayaking	
PEAC 212 Backpacking	
PEAC 214 Mountain Biking	
	<u>24</u>

**Minor—Outdoor Leadership (19 Hours)**

Required Courses		Hours
EDOE 301	Outdoor Ministries	3
EDOE 345	Environmental Education	2
OUTL 136	Survey of Outdoor Adventures	3
OUTL 356	Outdoor Field Experience	3
	Outdoor Leadership Electives	8

**Minor—Relief Medic (24 Hours)**

Required Courses		Hours
EDOE 301	Outdoor Ministries	3
OUTL 136	Survey of Outdoor Adv	3
OUTL 218	Fund of Outdoor Leadership	3
OUTL/PSYC 221	Challenge Course Facilitator	3
OUTL 318	Wilderness First Responder OR	3
OUTL 330	Wilderness EMT	
Select nine (9) hours from the following:		9
OUTL 142	Canoeing	
OUTL 145	Rock Climbing I	
OUTL 146	Whitewater Rafting Guide	
OUTL 148	Basic Horsemanship	
OUTL 152	Caving	
OUTL 220	Advanced Rock Climbing	
OUTL 265	Outdoor Leadership Topics	
OUTL 346	Swift Water Rescue	
OUTL 352	Vertical Caving	
OUTL 354	Rope Technician I	
OUTL 465	Outdoor Leadership Topics	

**Undergraduate Degrees in Teacher Education**

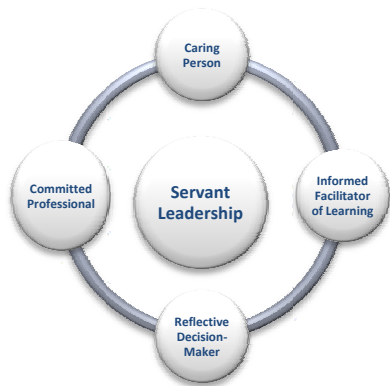
The School of Education and Psychology is approved by the Tennessee State Board of Education for the preparation of secondary and elementary teachers. It is accredited by the National Council for Accreditation of Teacher Education (NCATE) and by the Accrediting Association of Seventh-day Adventists Schools, Colleges and Universities, Inc.

**Praxis II Pass Rate**

The completers of the Teacher Education Program at Southern have achieved a 100% pass rate in the Praxis II licensure exams.

**Objectives of the Teacher Education Program**

The goal of the Teacher Education Program is to nurture the development of the wholistic teacher, with a central focus of servant leadership. This goal is reflected in the conceptual framework, a goal in which we seek to provide opportunities for the candidate to become effective in the following roles: (a) a caring person, (b) an informed facilitator of learning, (c) a reflective decision maker, (d) a committed professional. These four core objectives are reflected, in turn, through specific proficiencies that lay the foundation of professional excellence.



Southern Adventist University has approved teacher certification programs at three levels:

- K-8 SDA Elementary Education
- B.A. in Liberal Arts Education Leading to Licensure (K-6 TN)

K-12	Secondary Education B.F.A. in Art Education B.Mus. in Music Education B.S. in Physical Education/Health
7-12	B.A. in Biology Education B.A. in Chemistry Education B.A. in English Education B.A. in History Education B.A. or B.S. in Mathematics Education B.A. in Physics Education B.A. in Religious Education B.A. in French Education B.A. in Spanish Education

### 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.

#### A. 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 advisor by the Records and Advisement Office. The advisors assist in planning a student's academic program each year and guide their advisees through the stages of the Teacher Education Program. Advisors 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, 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 or "C" (2.00) in the professional education must be repeated. At admission to student teaching, candidates must have a minimum 2.75 grade point average in the major studies and a minimum 2.75 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. Possess an overall grade point average of 2.75 or above
4. 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 102 with a grade of C (2.00) or higher
5. Possess an enhanced ACT/SAT composite or average score of 22 OR have passed all three sections of the PRAXIS I (Pre-Professional Skills Test) which is the

entrance competency test required by the State of Tennessee. The ACT composite or average score of 22 or above will EXEMPT the PPST

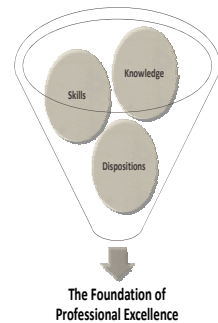
6. Submit a formal application with an attached, typed essay about the kind of teacher he/she plans to become, including goals for students, classroom setting, and personal goals
7. Complete a self-assessment instrument and obtain recommendations from the Vice President of Student Services and the student's academic advisor as part of the application process
8. Present and receive approval for an initial admission professional portfolio
9. Complete successfully an initial interview with the Teacher Education Faculty
10. Provide evidence of having passed a fingerprinted Tennessee Board of Investigation background check.
11. Provide evidence of membership in a professional organization

Applications meeting the above criteria are approved by the School of Education and Psychology Faculty and recommended to the Teacher Education Council. The student will be informed in writing as to the status of the application for admission following the action of the Teacher Education Council.

## B. Candidacy and Retention in Teacher Education

After the applicant has been admitted to the Teacher Education Program, his/her progress may be reviewed by the Candidacy Committee. As a teacher candidate, the applicant will be given an opportunity to interact with the Candidacy Committee in a non-threatening atmosphere. During the interview the candidate can strengthen his/her commitment to teaching or express his/her concerns and questions about the teaching profession.

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. Teacher candidates are expected to maintain consistent personal representation of the standards and objectives of Southern Adventist University and the Teacher Education Program.



## C. Authorization to do Student Teaching

The teacher candidate must file a formal application with the faculty of the School of Education and Psychology for authorization to do student teaching. Application forms may be obtained from the School of Education and Psychology office in Summerour 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 student 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 student 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 complete all required Praxis II exams by the**

**preceding June test date. All students planning to student teach in the winter semester must complete all required Praxis II exams by the preceding September test date.**

The following criteria are required for each applicant:

1. Completion of all professional education courses
2. Cumulative minimum GPA of 2.75
3. Major Studies minimum GPA of 2.75
4. Professional Education minimum GPA of 2.75
5. Professional education 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. Evidence of acceptable professional dispositions
8. Adherence to standards and objectives of Southern Adventist University and the Teacher Education Program
9. Submission of the following documents at least one semester in advance:
  - Application
  - Recommendation forms (advisor and recent education professor)
  - Self-assessment instrument
10. Completion and passing of all applicable PRAXIS II examinations
11. Completion of a successful student teaching interview
12. Presentation of completed Professional Development Portfolio. Minimum acceptable score is 75%
13. Evidence of having passed a fingerprinted Tennessee Board of Investigation background check
14. Evidence of CPR Certification current through the student teaching semester
15. Evidence of First Aid Certification current through the student teaching semester

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 candidacy committee recommends a conditional acceptance, student teachers will be notified of the condition(s). Student teachers accepted conditionally will receive additional coaching from the supervisor. Failure to meet the conditions will result in termination of the student teaching placement. The candidacy committee will then determine eligibility for continuing student teaching.

### **Advisement**

The major 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 advisor as he/she interacts with his/her advisees during advisement sessions.

Secondary majors have an advisor in their major. However, they should seek 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. Candidates seeking admission to the Teacher Education Program who have failed to obtain satisfactory ACT scores (minimum composite or average of 22) and who have failed two (2) attempts to pass the Praxis I (PPST) tests may submit an appeal to the chair of the Teacher Education Council. 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. As part of the appeals process, applicants must:

- Provide evidence of utilizing the services provided by Learning Success Services (or equivalent, e.g., Sylvan Learning Center) for Praxis I test preparation
- Submit a letter of commitment to teaching
- Submit two letters of recommendation from previous or current professors
- Submit one letter of recommendation from a K-12 cooperating teacher/administrator or a professional who has observed interactions with children and youth
- Receive a passing score on the applicable Praxis II content area exam
- Interview successfully for initial admission

A letter of response will be provided to each applicant stating the decision of the Teacher Education Council.

Any applicant who seeks to follow this appeals policy must first seek counsel from the Dean of School of Education and Psychology. Courses may be repeated to raise GPA or students may follow the Grievance Procedures found under Academic Policies (page 46).

### **Assessment of Education Majors**

Final assessment of senior education majors takes place during their **full semester of student teaching**. It involves continuous monitoring of the student's classroom performance using both verbal and written feedback. Senior assessment consists of two phases.

Phase One, Formative Evaluation. The cooperating teacher conducts informal conferences as well as a weekly formal conference providing anecdotal records. The University supervisor, the cooperating teacher, and the student teacher collaborate to complete the formative evaluation at midpoint of each placement.

Phase Two, Summative Evaluation. The cooperating teacher and the University supervisor collaborate to complete the Student Teaching Summative Evaluation. Performance assessments used are the Student Teaching Summative Evaluation, the Initial Disposition Instrument, and the Student Teaching Portfolio. The student teacher is also evaluated by his/her students when they complete the Pupil Evaluation of the Student Teacher. A self-evaluation is completed by the student through a video-taped lesson. A capstone interview is conducted with all student teaching candidates.

The faculty of the School of Education and Psychology will monitor a candidate's academic progress, dispositions, and social and professional skills during the student

teaching placements. If at any time, after being admitted to student teaching, a teacher candidate gives evidence of failing to maintain commitment to criteria or preparation for teaching, he/she may be asked to postpone student teaching placements and submit to further requirements as deemed necessary to ensure success in the teaching profession.

The final letter grade for the student teacher's performance is determined by members of the Education Faculty. Failure to complete student teaching with a satisfactory grade of C (2.00) or above results in students being reassigned for an additional placement.

Graduate follow-up is carried out through the Program Effectiveness Assessment completed by the first-year teachers. Feedback for the Teacher Education Program is solicited from administrators of school systems using the Program Effectiveness Assessment.

### **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. Certification 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 certification?**

Every student who successfully completes the requirements for teaching in the elementary or secondary school and graduates from Southern Adventist University will receive recommendation for certification based upon the following criteria:

1. Successful completion of student teaching assignments
2. Satisfactory completion of all credential requirements
3. Recommendation of major departments/schools
4. Passing scores on the following PRAXIS II Examinations:
  - Principles of Learning and Teaching
  - Appropriate specialty area(s)

**Certification 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 certification is available from the Southern Adventist University certification officer. Since teacher certification regulations are always in the process of change, graduating teacher education candidates are urged to make their applications for certification immediately. If the candidate does not make application within two years for denominational certification, or within three years for Tennessee State certification, she/he will have to take additional courses before certification can be issued.

### **What certificates may be obtained?**

1. Initial Certificate (Tennessee)

A certificate 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)

Required by the Department of Education of the North American Division of Seventh-day Adventists. This three-year denominational certificate is issued on the basis of completing the following courses in addition to the above requirements:

EDUC 220 Growth Years	
OR .....	3 hours
PSYC 128 Developmental Psychology	
HLED 173 Health for Life.....	2 hours
RELB Biblical Studies.....	3 hours
REL Upper division religion elective .....	3 hours
RELT 255 Christian Beliefs.....	3 hours
RELT 138 Adventist Heritage.....	3 hours

**Requirements for Certification**

Candidates for state certification 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 advisors 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 seven main areas of the General Education requirements, pages 32-36.

2. Professional Education:

Elementary: The elementary program with the degree requirements is listed on page 129 of this *Catalog*.

Secondary: The following courses are required for secondary teaching certification. In order to be eligible for certification, candidates must have a minimum grade point average of 2.75 in the major, professional education, and cumulative areas. **They must also include one literature class and one mathematics class in their programs, each at the 100 level or above.**

EDUC 138 Intro to & Foundations of Secondary Education .....	3 hours
EDUC 217 Psychological Foundations of Education .....	2 hours
EDUC 220 Growth Years	
OR .....	3 hours
PSYC 128 Developmental Psychology	
EDUC 319 Technology in Education.....	3 hours
EDUC 325 Philosophy of Christian Education (W).....	2 hours
EDUC 340 Foundations of Inclusive Education.....	2 hours
EDUC 356 Classroom Assessment.....	2 hours
EDUC 422 Behavior Management—Secondary.....	2 hours
EDUC 434 Reading and Writing in the Content Areas . .....	2 hours
EDUC 437 Curriculum and General Methods, Grades 7-12.....	1 hour
EDUC 438 Curriculum Content Methods, Grades 7-12 .....	1 hour



EDUC 464 Teaching Seminar .....	2 hours
EDUC 472 Enhanced Student Teaching 7-12	
OR .....	10 hours
EDUC 473* Enhanced Student Teaching K-12	
TOTAL HOURS .....	35 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 K-8 SDA (K-6 TN). See program descriptions on page 130 of this *Catalog*.

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	Religion
Mathematics	

Students are to complete the degree requirements as specified by their chosen majors plus the professional education courses as listed under B above.

4. Miscellaneous Information Relative to Teacher Training:

- A minimum grade of “C” (2.00) is required in each teacher education cognate.
- 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 Candidacy Committee.
- Correspondence credit will be accepted to the extent of one-fourth 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.
- For certification, 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.

**NOTE: The Teacher Education Program at Southern Adventist University is continuously reviewed to meet North American Division, NCATE, and/or State of Tennessee’s changing and mandated licensure requirements for teacher preparation. As a result,**

changes may occur in the course offerings and in the program requirements for students preparing to become teachers.

Teacher education candidates must meet additional requirements mandated by NAD, NCATE, or the State of Tennessee, even though such changes may not be listed in the Teacher Education programs in the particular catalog under which the student entered. Students should stay in contact with the School of Education and Psychology to be aware of any changes that may affect them.

## Degree for Elementary Teaching Licensure

### Major—B.A. Liberal Arts Education (41 Hours)

#### Leading to Licensure K-8 SDA, K-6 TN\*

Major	41
Cognates	9
General Education	32-38
Professional Education	43
TOTAL	**125-131

\*Meets K-8 standards for Seventh-day Adventist teaching certification and K-6 standards for state of Tennessee teaching licensure.

\*\*A student who has two units of sequential high school foreign language can complete this degree program in 125 semester hours

Required Courses	Hours	Required Cognates	Hours		
BIOL 103	Principles of Biology	3	EDOE 345	Environmental Education	2
CHEM 107	Chemistry of Everyday Life	3	EDUC 232	Survey of Children's Lit	2
EDUC 319	Technology in Education	3	EDUC 322	Educational Rsrch & Stat (W)	3
EDUC 336	Lang Acquisition & Dev	2	PETH 463	Elem School PE Methods	2
ENGL 304	Grammar & Linguistics				
	OR	3			
ENGL 312	Creative Wrtg: LA Elem Tchr				
ERSC 105	Earth Science	3			
GEOG 204	World Geography	3			
HIST 174	World Civilization I	3			
HIST 356	Natives and Strangers (W)	3			
MATH 106	Survey of Math I	3			
MATH 107	Survey of Math II	3			
PLSC 254	Amer National & State Gov't	3			
ELIT LD	Literature Elective	3			
	3 hrs UD Electives in COMM/ENGL/HIST/SCI	3			

#### General Education (32-38 Hours)

AREA A ENGL 101, 102; COMM 135; A-2, A-4 included in major	9
AREA B RELB, 3 hours; RELT 138, 255; UD RELB or RELT 3 hours	12
AREA C C-1, C-2 (GEOG 204; HIST 356(W); PLSC 254) included in major	
AREA D D-2 in major, Foreign Lang (or two years in high school)	0-6
AREA E E-1 (BIOL 103; CHEM 107; ERSC 105) included in major	
AREA F EDUC 220; HLED 173, EDUC 217	7
AREA G PEAC 225, PEAC elective	2
AREA D/G Select either MUED 231 or ART 230	2

#### Professional Education (42 Hours)

EDUC 129	Intro/Found Elem Education	3
EDUC 320	Literacy in the Primary Grades	2
EDUC 325	Phil of Christian Educ (W)	2
EDUC 335	Reading & Lang Arts Methods	4
EDUC 340	Fnds of Inclusive Education	2
EDUC 356	Classroom Assessment	2
EDUC 421	Behavior Management—Elem	2

#### Professional Education, continued

EDUC 426	K-2 Multiage Methods	2
EDUC 449	School & Classroom Ldrshp	2
EDUC 450	Rdg Assessment & Instruc	3
EDUC 453	Math Methods in Elem Sch	2
EDUC 454	Sci & Hlth Meth Elem Sch	2
EDUC 459	Bible & SS Tchg Meth Elem	2
EDUC 464	Teaching Seminar	2
EDUC 471	Enhanced Student Tchg K-6	10

**Minor—Education (18 Hours)**

<b>Required Courses</b>	<b>Hours</b>
<i>Select eighteen (18) hours from the following: 18</i>	
EDOE 301 Outdoor Ministries	
EDUC 129 Intro to & Fnd Elementary Educ OR	
EDUC 138 Intro to & Fnd Secondary Educ	
EDUC 217 Psyc Foundations of Education	
EDUC 220 Growth Years	

<b>Required Courses, continued</b>	
EDUC 232	Survey of Children’s Literature
EDUC 319	Technology in Education
EDUC 325	Philosophy of Christian Educ (W)
EDUC 336	Language Acquisition & Dev
EDUC 340	Foundations of Inclusive Educ
EDUC 423	Issues in Adolescence

This minor does not lead to either elementary or secondary certification, both of which require a baccalaureate degree and completion of professional education courses for licensure. See the Requirements for Certification beginning on page 127.

**Program for Elementary Endorsement for Individuals Meeting Requirements for Secondary Certification**

Twenty-four (24) semester hours selected from the courses listed below are required. A minimum of 12 semester hours from these courses must be completed after the date the applicant became eligible for the original certificate endorsed in a subject area in grades 7-12 or in a subject area in grades K-12. **Grades must be C (2.00) or better.**

1. Required Courses:

EDUC 319 Technology in Education.....	3
EDUC 335 Reading and Language Arts Methods.....	4
EDUC 426 K-2 Multiage Methods.....	2
EDUC 453 Mathematics Methods*.....	2
EDUC 454 Science and Health Methods.....	2
EDUC 459 Bible and Social Studies Methods.....	2

2. Six semester hours to include three of the following four areas:

ART 230 Intro to Art Experiences.....	2
EDUC 320 Literacy in the Primary Grades.....	2
MUED 231 Music and Movement.....	2
PETH 463 Elementary School PE Methods.....	2

3. Two semester hours must be in Foundations of Inclusive Education, if not successfully completed previously. If Foundations of Inclusive Education (EDUC 340) or any of the above required courses in Section A or Section B have been previously completed, the remaining semester hours must be taken from the following courses:

- EDUC 232 Survey of Children’s Literature
- EDUC 449 School and Classroom Leadership
- HLED 173 Health for Life

**Programs for Secondary Endorsement for Individuals Meeting Requirements for Elementary Education Certification**

The student must take ten hours of credit after the date the original certificate was earned. Six semester hours of the ten must be in specialized professional education appropriate to grades 7-12 and must include a minimum of 2 semester hours of appropriate methods. The credit for at least one area of endorsement in grades 7-12 may

have been earned at any time prior to the application for adding the endorsement. **Grades must be C- or better.** The student must also fulfill the following:

1. Meet the State of Tennessee requirements for endorsement in at least one teaching field (this will vary from 18 to 51 hours).
2. A minimum of six semester hours of professional education including:
  - EDUC 434 Reading and Writing in the Content Areas
  - EDUC 437 or EDUC 438 Curriculum and General or Content Methods
  - Any other courses designated by the School of Education and Psychology
3. Four semester hours of electives.

# ENGINEERING STUDIES

## Engineering Studies Committee:

Henry Kuhlman (Chair), Ray Carson, Ken Caviness, Tyson Hall, Chris Hansen

Southern Adventist University Physics Department offers the first two years of a baccalaureate degree in engineering. 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 pre-professional 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 advisor at his or her engineering school of choice in addition to the engineering studies advisor.

## Assessment

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.

## Program in Engineering Studies

### Major—A.S. Engineering Studies (36 Hours)

Required Courses		Hours	Required Cognates		Hours
ENGR 121	Intro to Engineering	1	CHEM 151-152	General Chemistry	8
ENGR 149	Intro to Mech Drwg & CADD	3	CPTR 124	Fund of Programming	4
ENGR 211	Eng Mech: Statics	3	<b>Required General Education (20 hours)</b>		
ENGR 212	Eng Mech: Dynamics	3	COMM 135	Intro to Public Speaking	3
ENGR 228	Linear Circuit Analysis	2	ENGL 101-102	College Composition	6
MATH 181	Calculus I	3	NOND 101	Southern Connections	1
MATH 182	Calculus II	4	PEAC 225	Fitness for Life	1
MATH 200	Elem Linear Algebra	2		Area C-1, History	3
MATH 218	Calculus III	4		Area B, Religion	6
PHYS 211-212	General Physics	6			
PHYS 213-214	General Physics Lab	2			
PHYS 215-216	Gen Physics Calc App	2			

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 advisor.

# ENGLISH

**Chair:** Jan Haluska

**Faculty:** Rachel Byrd, Joan dos Santos, Debbie Higgins, Tim Lale, Dennis Negron, Helen Pyke, Jodi Ruf, Keely Tary (Composition Coordinator)

## English

The English Department offers two categories of classes 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 majoring or minoring in English must meet the specific requirements of the English Department (below) and the General Education program (pages 32-36). For the English major, intermediate foreign language is required. College Composition does not count toward an English major or minor, but students majoring or minoring in English must earn a grade of C or higher in College Composition. The upper division literature classes are all writing (W) courses and hence require word processing skills.

## 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, to offer support services for students needing help with their writing, and to prepare English majors for graduate school and/or the job market.

## Assessment

As a requirement for graduation and as part of a departmental assessment process, senior English majors take a written exam (Literature in English Major Field Test) and complete a written evaluation of departmental programs. Results provide information used to improve departmental programs.

## Programs in English Language and Literature

### Major—B.A. English (31 Hours)

Required Courses	Hours	Required Courses, continued	Hours
ELIT 214	3	<i>Select twelve (12) hours from the following :</i>	12
ELIT 215	3	ELIT 323	19th-Century Amer Lit (W)
ELIT 216	3	ELIT 332	Studies in Medieval Lit (W)
ELIT 445	3	ELIT 333	Studies in Renaissance Lit (W)
ENGL 313	3	ELIT 337	19th-Century Brit Lit (W)
		OR	
ENGL 314	3	ELIT 338	Twentieth-Century Writers (W)
ENGL 316	3	ELIT 368	Studies in Milton (W)
ENGL 412	1	ELIT 417	World Lit in Translation (W)
		ELIT 440	C.S. Lewis (W)
		ELIT 442	Shakespeare (W)
		ELIT 444	Restor & 18th-Century Lit (W)
		ENGL 313	Expository Writing (W)
		OR	
		ENGL 314	Creative Writing (W)
		ENGL 491	English Practicum
		OR	
		ENGL 492	English Internship

### Major—B.A. English (31 Hours), continued

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.

Required Cognates		Hours	Recommended for teaching majors:		Hours
HMNT 205	Arts and Ideas	3	JOUR 205	News Reporting	3
HIST 374	History of England	3		OR	
	Intermediate Foreign Lang	6	JOUR 175/475	Journalism Workshop	1-3

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*. A student preparing for secondary teacher certification must also take ELIT 430.

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).

### Teaching Endorsement (21 Hours)

Students certified in another area who want an endorsement for teaching English must take the following classes:

Required Courses		Hours	Required Courses, continued		Hours
ELIT 214	Survey of American Lit	3	ENGL 313	Expository Writing	
ELIT 215	Survey of English Lit	3		OR	3
ELIT 216	Approaches to Literature	3	ENGL 314	Creative Writing	
ELIT 430	Library Mat for Young Adults	2	ENGL 316	Modern Engl Gram & Ling	3
ELIT 445	Ancient Classics	3	EDUC 438	Curr Content Meth, Gr 7-12	1

### Minor—English (18 Hours)

Required Courses		Hours
ELIT 214	Survey of American Lit	3
ELIT 215	Survey of English Lit	3
ELIT 216	Approaches to Literature	3
ENGL 316	Modern Engl Gram & Ling	3
ENGL 313	Expository Writing (W)	
	OR	3
ENGL 314	Creative Writing (W)	
	Upper Division Electives	3

## English as a Second Language Program (EESL)

Students whose native language is not English and whose TOEFL (paper-pencil test) scores are between 450-549 or whose TOEFL Internet Based Test (IBT) scores are between 45-79 or whose English ACT score is below 18 will be required to take special English classes offered by the English Department. These students are ineligible for Basic Writing or College Composition until they have completed these special English classes. Students with TOEFL scores below 450 (IBT 45) have not met admissions requirements and hence are ineligible to take classes in the English Department.

Southern Adventist University offers an English as a Second Language program with Intermediate and Advanced levels to aid students whose native language is not English. The EESL program is designed to help EESL students improve their English reading, speaking, and writing skills and to prepare for their success in regular academic programs. For details on international EESL students, see the Admissions section of the *Catalog*. Placement in the EESL program is based on the TOEFL score of the past 12 months.

Intermediate Level:

1—450-474 (IBT 45-52) (EESL 031,041,051)

2—475-499 (IBT 53-60) (EESL 032,042,052)

Advanced Level:

1—500-524 (IBT 61-70) (EESL 121,131)

2—525-549 (IBT 71-7) (EESL 122,132)

To progress from one level to the next, students must earn a minimum grade of C in the course work and achieve a minimum TOEFL score as follows:

Intermediate Level:

1—475 (IBT 53) (EESL 031,041,051)

2—500 (IBT 61) (EESL 032,042,052)

Advanced Level:

1—525 (IBT 71) (EESL 121,131)

2—550 (IBT 79) (EESL 122,132)

### Intermediate Level Courses (Non-Credit) Hours

EESL 031	Language Skills I: Writing 1	3
EESL 032	Language Skills I: Writing 2	3
EESL 041	Language Skills I: Grammar 1	3
EESL 042	Language Skills I: Grammar 2	3
EESL 051	Language Skills I: Rdg/Disc 1	3
EESL 052	Language Skills I: Rdg/Disc 2	3
EESL 061	Language Skills I: TOEFL Prep	1

Students are allowed to take three additional non EESL credit hours for elective college credit.

### Advanced Level Courses:

		*Hours
EESL 121	Lang Skills II: Grammar 1	3
EESL 122	Lang Skills II: Grammar 2	3
EESL 131	Lang Skills II: Wrtg/Rdg 1	3
EESL 132	Lang Skills II: Wrtg/Rdg 2	3
EESL 141	Lang Skills II: TOEFL Prep 1 (n/c)	

*\*In the Advanced level students may earn up to a maximum of 6 elective credit hours based on the highest grades earned. Students are allowed to take 6 additional non EESL credit hours for elective college credit.*



# HISTORY

**Chair:** Dennis Pettibone

**Faculty:** Lisa Clark Diller, Mark Peach

## 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.

## Approval of Study Programs for History Majors

Departmental approval is necessary for all programs. A student majoring in history must plan his/her entire study program with a member of the history faculty. Approval is then considered on an individual basis and is granted on the following conditions:

1. Compliance with graduation requirements as explained elsewhere in the *Catalog*.
2. Fulfillment of the professional and individual needs of the student.
3. Embodiment of academic balance and continuity.
4. Completion of senior year assessment.

## Assessment

Assessment of seniors consists of two parts. First, in late fall semester of their senior year students will take the ETS Major Field Achievement Test 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. The subsequent examination will be in the form of a one-hour interview of the candidate by the history faculty. This will be based on the above mentioned materials and also on the student's portfolio of major papers accumulated during his/her history course work. 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, Research Methods in History, which requires an extended formal presentation of student research.

History majors must display the ability to apply computer usage to their discipline in two ways: first, a facility with word processing; and second, a facility in accessing information via the Internet.

## Bachelor of Arts Degree in History

### Major—B.A. History (30 Hours)

Required Courses		Hours	Required Cognates		Hours
HIST 154, 155	American History & Instit	6		Inter Level of Foreign Lang	3-6
HIST 174, 175	World Civilizations	6			
HIST 297	Historiography	2		<i>Select three (3) hours from the following:</i>	3
HIST 490	Senior Exam Preparation	1	PLSC 224	Prin of Macroeconomics	
HIST 497	Research Meth in History (W)	3	GEOG 204	World Geography	

Of the remaining 12 hours, 10 UD hours are required, two from American and two from non-American courses. Six hours of political science may apply to the major.

Required Courses:		Hours	Required Courses:		Hours
<i>Select six (6) hours from the following:</i>		6	<i>Select six (6) hours from the following courses:</i>		6
<b>(American History)</b>			<b>(European History)</b>		
HIST 351	Colonial Latin America (W)		HIST 345	Middle Eastern Politics & Hist (W)	
HIST 353	From Colony to Nation (W)		HIST 374	History of England (W)	
HIST 355	History of the South (W)		HIST 375	Ancient Mediterranean World (W)	
HIST 356	Natives and Strangers (W)		HIST 386	Rise of the West (W)	
HIST 357	Modern America (W)		HIST 387	Europe in the 19 <sup>th</sup> Century (W)	
HIST 359	Trans of American Culture (W)		HIST 388	Contemporary Europe (W)	
PLSC 254	American National & State Gov		HIST 389	History of the Holocaust (W)	
PLSC 353	From Colony to Nation (W)		HIST 471	Classics of West Thought I (W)	
PLSC 357	Modern America (W)		HIST 472	Classics of West Thought II (W)	
			PLSC 345	Middle Eastern Politics & History	
			PLSC 388	Contemporary Europe (W)	
			PLSC 471	Classics of West Thought I (W)	
			PLSC 472	Classics of West Thought II (W)	
			HIST 364	Christian Church I (W)	
				OR	
			HIST 365	Christian Church II (W)	

### European Studies Concentration (33 Hours)

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).

### Minor—History (18 Hours)

Required Courses		Hours
HIST 174	World Civilizations	3
HIST 175	World Civilizations	3

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.

### History as a Preparation for Teaching

A student majoring in history who plans to prepare for secondary teacher certification in history and government must include six hours upper-division Political Science in the major and must also take PLSC 224, 554; and GEOG 204. It is recommended that the candidate consider earning teaching credentials in an additional field. No specific field is required, but English, Spanish, French, art, and religion are recognized to be intimately related to the study of history and government. A student may receive denomination certification to teach history as an additional endorsement area by completing a minor in history. Students seeking teacher certification must include in their programs the

required professional education courses and specific general education requirements as outlined in the Education and Psychology section of this *Catalog* under “Requirements for Certification.” They should consult the School of Education and Psychology faculty to draft a schedule of classes meeting certification requirements.

Students must apply for initial Admission to the Teacher Education Program (preferably 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 *Undergraduate Catalog*. Initial admission is required before students can enroll in upper division education courses.

Students 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 appropriate PRAXIS II licensure exams—both the appropriate section of the Principles of Learning and Teaching exam and the required specialty test(s) for the area(s) in which they are seeking licensure.

A non-history major seeking Seventh-day Adventist teaching certification in history must take eighteen hours of course work in history.

### **Minor—Political Economy (18 Hours)**

Combines an interdisciplinary selection of courses helpful for law school preparation. For a further description of this pre-law preparation program, see page 219.

### **Minor—Political Science (18 Hours)**

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.

The Political Science minor is an 18-hour program, 9 or 12 hours of which (depending on whether a summer or semester-long internship was taken) would consist of the internship credit. The balance of the minor would require:

- PLSC 254 American Government
- 3 to 6 hours of other PLSC courses

For more details on the program, see the History Department chair.

### **Minor—Western Intellectual Tradition (18 Hours)**

<b>Required Courses</b>	<b>Hours</b>	<b>Select three (3) hours from the following:</b>	<b>3</b>
ELIT 445	Ancient Classics (W)	ELIT 417	World Lit in Translation
HIST 471	Classics Wstrn Thought I (W)	HIST 471	Classics of Wstrn Thought I (W)
	OR	HIST 472	Classics of Wstrn Thought II (W)
HIST 472	Classics Wstrn Thought II (W)	PHYS/RELT 317	Issues in Phys Sci & Religion (W)
HIST 295/495	Directed Study	RELT 467	Christian Phil & Worldviews (W)
HMNT 205	Arts and Ideas		
HMNT 210	Introduction to Philosophy		
HMNT 451	Honors Seminar		
HMNT 452	Honors Seminar		

**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 to foreign countries. 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 295/495 Directed Study in History. Cost of the tours includes charge for academic credit.

**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.

## INTERDISCIPLINARY

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 SAU.
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 SAU'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:** Greg Rumsey

**Faculty:** Lorraine Ball, A. Laure Chamberlain, Linda Potter Crumley, Lynelle Ellis, Andy Nash, Stephen Ruf

**Adjunct Faculty:** David Barasoian, Wesley Hasden, John Keyes, Billy Weeks

**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, or for Nonprofit majors, PREL 233
- 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 should apply for admission at the end of the freshman year (24-32 hours). Declared School of Journalism and Communication majors may not take upper-division departmental classes without admission to the School. 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 Broadcast Journalism, Intercultural Communication, 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, Intercultural Communication, Journalism (News Editorial), Media Production, Nonprofit Leadership, 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 enrolling in the **Broadcast Journalism** major receive preparation for careers in commercial and non-commercial radio and television as reporters, producers, videographers, and managers.

Students graduating with a degree in **Intercultural Communication** may find work in multi-national 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 culturally diverse settings.

The **Journalism** major prepares students for careers as reporters, writers and editors for daily and weekly newspapers, magazines, wire services, publishing houses and for the vast array of publications 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. Meet the Firms seminars are held each fall and a one-hour seminar style class is offered each winter semester in preparation for the Meet the Firms event. 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 on 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 in a number of courses.

**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 School Communication Club and the Society of Adventist Communicators as well as student membership in a national professional organization such as 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, advisors 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 supervisors of interns and alumni. 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.

## Programs in Journalism

### Major—B.A. Broadcast Journalism (33 Hours)

(If a student both majors and minors in the School, at least 12 hours must **not** overlap between the major and the minor.)

Required Courses	Hours
BRDC 201	Foundations of Broadcasting 3
BRDC 202	Digital Audio Production 3
BRDC 227	TV Studio Production 3
BRDC 314	Broadcast News Writing (W) 3
BRDC 327	Digital Video Production 3
BRDC 417	Electronic Media Mgmt 3
BRDC 426	TV News Reporting & Perform 3
COMM 397	Communication Research OR 3
JOUR 488	Mass Comm & Society (W) 3
JOUR 105	Writing for the Media 3
JOUR 205	News Reporting 3
JOUR 427	Mass Media Law & Ethics 3

Required Cognates	Hours
COMM 103	Intro to Communication 3
ECON 213	Survey of Economics 3
JOUR 208	Publication Tools & Tech 3
JOUR 242	Intro to Web Design 3
PLSC 254	Amer National & State Govt 3
	Intermediate Foreign Lang 6

Recommended Electives	Hours
ARTG 115	Intro to Computer Graphics 3
COMM 330	Intercultural Comm (W) 3
HMNT 205	Arts & Ideas 3
JOUR 492	Internship:Broadcasting 3
MATH 215	Statistics 3

### Major—B.A. Journalism (32 Hours)

(If a student both majors and minors in the School, at least 12 hours must **not** overlap between the major and the minor.)

Required Courses	Hours
JOUR 105	Writing for the Media 3
JOUR 205	News Reporting 3
JOUR 208	Publication Tools & Tech 3
JOUR 242	Intro to Web Design 3
JOUR 313	Publication Editing 3
JOUR 315	Photojournalism 2
JOUR 316	Mag & Feature Art Writing (W) 3
JOUR 356	Advanced Reporting (W) 3
JOUR 427	Mass Media Law & Ethics 3
JOUR 488	Mass Comm & Soc (W) 3
PHTO 125	Intro to Photography 3

Required Cognates	Hours
COMM 103	Intro to Communication 3
COMM 397	Communication Research 3
ECON 213	Survey of Economics 3
HMNT 205	Arts & Ideas 3
	OR 3
SOCI 150	Cultural Anthropology 3
PLSC 254	American Nat & State Gov 3
	Literature Electives 3
	Inter Level Foreign language 6

Recommended Electives	Hours
JOUR 492	Journalism Internship OR 1-3
JOUR 391	Journalism Practicum 3
MATH 215	Statistics 3
PREL 235	Public Rel Princ & Theory 3
TECH 244	Graphic Production 3

## Programs In Communication

### Major—B.A. Intercultural Communication (31-33 Hours)

Required Courses		Hours	Required Cognates		Hours
COMM 103	Intro to Communication	3	ENGL 316	Modern Engl Grammar & Ling	3
COMM 330	Intercultural Comm (W)	3	HMNT 205	Arts & Ideas	3
COMM 336	Interpersonal Communication	3	SOCI 150	Cultural Anthropology	3
COMM 397	Communication Research	3	SOCI 230	Multicultural Relations	3
COMM 406	Persuasion & Propaganda (W)	3			
JOUR 105	Writing for the Media	3			
JOUR 427	Mass Media Law & Ethics	3			
JOUR 488	Mass Comm & Soc (W)	3			
PREL 235	Public Rel Principles & Theory	3			
RELT 458	World Religions (W)	3			

Select one (1) from the following:

COMM 291/391	Intercultural Comm Prac	1-3
COMM 495	Directed Study (with an intercultural topic)	3
JOUR 492	Journalism Internship	3

#### Required Minor (18 hours)

An Intercultural Communication major 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.

	Select nine (9) hours from the following:	9
ARTH 345	Contemporary Art (W)*	
ELIT 445	Ancient Classics (W)*	
HIST 356	Natives & Strangers (W)	
MGNT 368	Multicultural Management	
HIST/PLSC 345	Mid Eastern Pol & His (W)	
	OR	
HIST/PLSC 388	Contemporary Europe (W)	
RELB 237	Archaeology & the OT	
RELB 247	Archaeology & the NT	
RELB 340	Middle East Study Tour	
RELB 455	Archaeological Fieldwork	
RELP 240/340	World Missions	

\*Satisfies humanities component for International Studies

#### Recommended Electives

BMKT 375	International Marketing	3
MGNT 364	International Bus & Econ	3
SOCI 125	Intro to Sociology	3
SOCI 296/496	Study Tour	3

### Major—B.S. Mass Communication (48-63 Hours)

Required Core		Hours	Advertising Concentration		(63 Hours)
BRDC 201	Foundations of Broadcasting	3		Mass Communication Core	30
COMM 103	Intro to Communication	3	BMKT 326	Principles of Marketing	3
JOUR 105	Writing for the Media	3	BMKT 328	Sales Management	3
JOUR 205	News Reporting	3	COMM 397	Communication Research	3
JOUR 208	Publication Tools & Tech	3	COMM 406	Persuasion & Propaganda (W)	3
JOUR 242	Intro to Web Design	3	PREL 344	Fundamentals of Advertising	3
JOUR 427	Mass Media Law & Ethics	3	PREL 355	Advertising Copywriting	3
JOUR 488	Mass Commun & Society (W)	3			
PHTO 125	Intro to Photography	3			
PREL 235	PR Principles & Theory	3			
	Concentration	28-33			

	Select fifteen (15) hours from the following:	15
ART 109	Design Principles I	
ARTG 210	Vector Graphics	
ARTG 212	Raster Graphics	
ARTG 332	Advertising Design	
ARTI 115	Intro to Interactive Media	
	OR	
ARTG 115	Intro to Computer Graphics	
BMKT 327	Consumer Behavior	
COMM 330	Intercultural Comm (W)	
COMM 412	Preparing to Meet the Firms	
MGNT 371	Prin of Entrepreneurship	
PHTO 320	Digital Photography	
PREL 291/391	Practicum	
PREL 492	Internship	
TECH 244	Graphic Production	

In consultation with your advisor choose one of the concentrations below. You must select at least 12 hours of upper division credit within your concentration.

**Major—B.S. Mass Communication (48-63 Hours), continued****Media Production Concentration (61 Hours)**

ARTF 215	Mass Communication Core	30
	Lighting	3
BRDC 202	Digital Audio Production	3
BRDC 227	TV Studio Production	3
BRDC 327	Digital Video Production	3
BRDC 426	TV News & Performance	3
BRDC 445	Senior Project	1
COMM 315	Scriptwriting (W)	
	OR	3
BRDC 314	Broadcast News Writing (W)	
COMM 326	Film Evaluation (W)	3

*Select nine (9) hours from the following:* 9

ARTF 353	Documentary Film	
ARTI 230	Sound Design	
BRDC 391	Practicum	
BRDC 417	Electronic Media Management	
BRDC 492	Internship	
COMM 412	Preparing to Meet the Firms	
MGNT 371	Prin of Entrepreneurship	

**New Media Concentration (63 Hours)**

	Mass Communication Core	30
BRDC 202	Digital Audio Production	3
BRDC 227	TV Studio Production	3
BRDC 327	Digital Video Production	3
CPT 110	Intro to Web Development	1
CPT 212	Web Programming	3
CPTR 124	Fund of Programming	4
JOUR 342	Interactive Online Journalism	3
JOUR 445	Senior Project	1
PHTO 320	Digital Photography	3

*Select nine (9) hours from the following:* 9

ART 109	Design Principles	
ARTG 115	Intro to Computer Graphics	
ARTG 226	Digital Imaging	
ARTI 223	Intro to Interactive Media	
ARTI 265	Topics in Interactive Media	
COMM 412	Preparing to Meet the Firms	
CPTR 446	Web Services	
JOUR 313	Publication Editing	
JOUR 291/391	Practicum	
JOUR 492	Internship	

**Photography Concentration (59 Hours)**

ARTF 215	Mass Communication Core	30
	Lighting	3
ARTG 226	Digital Imaging	3
BRDC 227	TV Studio Production	3
COMM 326	Film Evaluation (W)	3
JOUR 445	Senior Project	1
PHTO 275	Applied Photojournalism	1
PHTO 315	Photojournalism	3
PHTO 320	Digital Photography	3

*Select nine (9) hours from the following:* 9

ART 109	Design Principles	
ART 223	Principles of Color	
BRDC 327	Digital Video Production	
COMM 412	Preparing to Meet the Firms	
MGNT 371	Prin of Entrepreneurship	
PHTO 265/465	Topics in Photography	
PHTO 291/391	Practicum	
PHTO 492	Photography Internship	

**Writing/Editing Concentration (58 Hours)**

	Mass Communication Core	30
COMM 397	Communication Research	3
JOUR 313	Publication Editing	3
JOUR 316	Mag & Feature Article Wrt (W)	3
JOUR 356	Advanced Reporting (W)	3
PHTO 315	Photojournalism	
	OR	3
PHTO 320	Digital Photography	

*Select thirteen (13) hours from the following:* 13

BRDC 202	Digital Audio Production	
BRDC 227	TV Studio Production	
BRDC 314	Broadcast News Writing (W)	
BRDC 327	Digital Video Production	
COMM 315	Scriptwriting (W)	
COMM 412	Preparing to Meet the Firms	
ENGL 313	Expository Writing (W)	
ENGL 314	Creative Writing (W)	
JOUR 342	Interactive Online Journalism	
JOUR 291/391	Practicum	
JOUR 175/475	Communication Workshop	
JOUR 492	Internship	
PREL 355	Advertising Copywriting	

**Major—B.S. Public Relations (52 Hours)****Required Courses Hours**

COMM 103	Intro to Communication	3
COMM 397	Communication Research	3
COMM 406	Persuasion & Propaganda (W)	3
COMM 412	Preparing to Meet the Firms	1
JOUR 105	Writing for the Media	3
JOUR 205	News Reporting	3
JOUR 208	Publication Tools & Tech	3
JOUR 242	Intro to Web Design	3
JOUR 313	Publication Editing	3
JOUR 316	Mag & Feature Art Writing (W)	3

**Required Courses, continued Hours**

BUAD 233	Intro to the Nonprofit Sector	3
JOUR 427	Mass Media Law & Ethics	3
PHTO 125	Intro to Photography	3
PREL 235	Public Rel Principles & Theory	3
PREL 344	Fund of Advertising	3
PREL 482	Public Relations Campaign	3
PREL 485	Public Relations Tech	3
PREL 492	Public Relations Internship	
	OR	3
	UD Journ/Comm Elective	

**Major—B.S. Public Relations (52 Hours), continued**

<b>Required Cognates</b>		<b>Hours</b>	<b>Strongly Recommended Electives</b>	
ACCT/BUAD	Business Elective	3	COMM 336	Interpersonal Communication
ECON/FNCE/ MGNT/BMKT	(Upper division recommended)		PHTO 315	Photojournalism
FREN/GRMN	Elementary Foreign Lang	6	PREL 368	Fund Development
ITAL/SPAN				Intermediate Foreign Lang
TECH 244	Graphic Production	3		

**Combined Major—B.S. Public Relations and Business Administration (85 Hrs)****Public Relations (45 Hours)**

<b>Required Courses</b>	<b>Hours</b>	
COMM 103	Intro to Communication	3
COMM 397	Communication Research	3
COMM 406	Persuasion & Propaganda (W)	3
JOUR 105	Writing for the Media	3
JOUR 205	News Reporting	3
JOUR 208	Publication Tools & Tech	3
JOUR 242	Intro to Web Design	3
JOUR 313	Publication Editing	3
JOUR 488	Mass Comm & Society (W)	3
PHTO 125	Intro to Photography	3
PREL 235	Public Rel Prin & Theory	3
PREL 344	Fund of Advertising	3
PREL 482	Public Relations Campaign	3
PREL 485	Public Relations Tech	3

Select three (3) hours from the following courses:3

BUAD 358	Eth, Soc & Legal Env of Bus (W)
JOUR 427	Mass Media Law & Ethics

The combined major provides students with the option to develop skills in two fields of study. A student will be assigned an advisor in their first-chosen major and a secondary advisor in the other major.

**Major—A.S. Media Technology (30 Hours)**

<b>Required Courses</b>	<b>Hours</b>	
BRDC 291	Practicum: Media Tech	2
COMM 103	Intro to Communication	3
CPTC 109	Presentation Technology	1
JOUR 208	Publication Tools & Tech	3
JOUR 242	Intro to Web Design	3
PHTO 125	Intro to Photography	3
TECH 244	Graphic Production	3

**Business Administration (40 Hours)**

<b>Required Courses</b>	<b>Hours</b>	
ACCT 221-222	Principles of Accounting	3,3
ACCT 321	Managerial Accounting	3
BUAD 105	Business Spreadsheets	3
BUAD 310	Business Communication (W)	3
BUAD 317	Mgmt Information Systems	3
BUAD 339	Business Law	3
BUAD 288/488	Seminar in Business Admin	1
BMKT 326	Principles of Marketing	3
ECON 224	Prin of Macroeconomics	3
ECON 225	Prin of Microeconomics	3
FNCE 315	Business Finance	3
MGNT 334	Principles of Management	3
MGNT 464	Business Strategies (W)	3

<b>Required Cognates</b>	<b>Hours</b>	
BUAD 104	Business Software	3
BUAD 128	Personal Finance	3
BUAD 221	Business Statistics	3

**New Media Concentration**

Select twelve (12) hours from the following: 12

ARTG 226	Digital Imaging
CPTC 110	Intro to Web Development
CPTC 212	Web Programming
CPTR 124	Fund of Programming
JOUR 342	Interactive Online Journalism
JOUR 445	Senior Project

**Production Concentration**

Select twelve (12) hours from the following: 12

BRDC 201	Foundations of Broadcasting
BRDC 202	Digital Audio Production
BRDC 227	TV Studio Production
BRDC 327	Digital Video Production
PHTO 315	Photojournalism
	OR
PHTO 320	Digital Photography

**Minor—Advertising (18 Hours)**

Required Courses		Hours
BMKT 328	Sales Management	3
PREL 344	Fundamentals of Advertising	3
PREL 355	Advertising Copywriting	3

Required Courses, continued		Hours
<i>Select nine (9) hours from the following:</i>		9
ARTG 332	Advertising Design	
BMKT 326	Principles of Marketing	
COMM 103	Intro to Communication	
COMM 330	Intercultural Comm (W)	
JOUR 208	Publication Tools & Tech	
JOUR 242	Intro to Web Design	

**Minor—Broadcast Journalism (18 Hours)**

Required Courses		Hours
BRDC 201	Foundations of Broadcasting	3
BRDC 202	Digital Audio Production	3
BRDC 314	Broadcast News Writing (W)	3
JOUR 105	Writing for the Media	3
JOUR 205	News Reporting	3

Required Courses, continued		Hours
<i>Select three (3) hours from the following:</i>		3
BRDC 417	Electronic Media Management	
JOUR 427	Mass Media Law & Ethics	
JOUR 488	Mass Communication & Society	

**Minor—Intercultural Communication (18 Hours)**

Required Courses		Hours
COMM 330	Intercultural Comm (W)	3
COMM 336	Interpersonal Communication	3
SOCI 150	Cultural Anthropology	3
SOCI 230	Multicultural Relations	3

Required Courses, continued		Hours
<i>Select six (6) hours of which three (3) must be upper division:</i>		6
COMM 291/391	Intercultural Comm Practicum	
	OR	
COMM 295/495	Directed Study (non-Anglo-American topic)	
GEOG 204	World Geography	
	OR	
HMNT 215/415	Cross-Cultural Experience	
JOUR 488	Mass Comm & Society (W)	
RELT 458	World Religions (W)	

**Minor—Journalism (News Editorial) (18 Hours)**

Required Courses		Hours
JOUR 105	Writing for the Media	3
JOUR 205	News Reporting	3
JOUR 208	Publication Tools & Tech	3
JOUR 313	Publication Editing	3

Required Courses, continued		Hours
JOUR 316	Mag & Feature Art Wrtg (W)	
	OR	3
JOUR 356	Advanced Reporting (W)	
JOUR 427	Mass Media Law & Ethics	
	OR	3
JOUR 488	Mass Comm & Society (W)	

**Minor—Media Production (19 Hours)**

Required Courses		Hours
ARTF 215	Lighting	3
BRDC 201	Foundations of Broadcasting	3
BRDC 202	Digital Audio Production	3
BRDC 227	TV Studio Production	3
BRDC 327	Digital Video Production	3
BRDC/COMM/ JOUR	Elective	1

Required Courses, continued		Hours
<i>Select three (3) hours from the following:</i>		3
BRDC 417	Electronic Media Mgmt	
JOUR 427	Mass Media Law & Ethics	
JOUR 488	Mass Comm & Society (W)	

**Minor—Photography (18 Hours)**

Required Courses		Hours
JOUR 208	Publication Tools & Tech	3
PHTO 125	Intro to Photography	3
PHTO 315	Photojournalism	3
PHTO 320	Digital Photography	3

Required Courses, continued		Hours
<i>Select six (6) hours from the following:</i>		6
ARTF 215	Lighting	
ARTG 226	Digital Imaging	
BRDC 227	TV Studio Production	
BRDC 327	Digital Video Production	
COMM 326	Film Evaluation (W)	
PHTO 291/391	Practicum	

**Minor—Public Relations (18 Hours)**

<b>Required Courses</b>		<b>Hours</b>
JOUR 105	Writing for the Media	3
PREL 235	Public Rel Prin & Theory	3
PREL 482	Public Relations Campaign	3

<b>Required Courses, continued</b>		<b>Hours</b>
<i>Select nine (9) hours which three (3) hours must be upper division:</i>		9
CPT 245/345	Computer-Aided Publishing	
JOUR 205	News Reporting	
JOUR 208	Publication Tools & Techniques	
JOUR 313	Publication Editing	
JOUR 465	Topics in Communication	
PREL 344	Fundamentals of Advertising	
PREL 368	Fund Development	
COMM 406	Persuasion & Propaganda (W)	
PREL 485	Public Relations Techniques	

# MATHEMATICS

**Chair:** Kevin Brown

**Faculty:** Patricia Anderson, Ronald D. Johnson, Arthur Richert

## Mathematics

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.

## Programs in Mathematics

### Major—B.A. Mathematics (30 Hours)

Required Courses		Hours	Required Cognates		Hours
MATH 181	Calculus I	3	CPTR 124	Funds of Programming	4
MATH 182	Calculus II	4			
MATH 200	Elementary Linear Algebra	2			
MATH 218	Calculus III	4			
MATH 219	Set Theory and Logic	3			
MATH 312	History of Mathematics	3			
MATH 318	Abstract Algebra	3			
MATH 411	Intermediate Analysis	3			
MATH 485	Mathematics Seminar (W)	1			
	UD Math Electives	4			



## Major—B.S. Mathematics (40 Hours)

Required Courses		Hours	Required Cognates		Hours
MATH 181	Calculus I	3	Select Option 1 or Option 2		
MATH 182	Calculus II	4	<b>Option 1</b>		
MATH 200	Elementary Linear Algebra	2	CPTR 124	Fund of Programming	4
MATH 218	Calculus III	4	CPTR 215	Fund of Software Design	4
MATH 219	Set Theory and Logic	3		OR	
MATH 317	Complex Variables	3	<b>Option 2</b>		
MATH 318	Abstract Algebra	3	PHYS 211-212	General Physics	6
MATH 411	Intermediate Analysis I	3	PHYS 213-214	General Physics Lab	2
MATH 412	Intermediate Analysis II	3			
MATH 485	Mathematics Seminar (W)	1			
	Math Electives (5 UD)	11			

See pages 28-29 and 32-36 for General Degree and General Education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

## Teacher Certification, 7-12

Secondary certification in Mathematics requires a baccalaureate degree and completion of professional education courses (page 127) for licensure. Students preparing for secondary teacher certification must include MATH 215 Statistics, MATH 312 History of Mathematics, and MATH 415 Geometry in the major. See further explanations in the School of Education and Psychology section, beginning on page 115.

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 (22 hours): MATH 181 Calculus I, MATH 182 Calculus II, MATH 200 Elementary Linear Algebra, MATH 215 Statistics, MATH 219 Set Theory and Logic, MATH 415 Geometry, one three-hour upper-division MATH course, and EDUC 438 Curriculum and Content Methods, Grades 7-12/Mathematics.

## 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.

## Minor—Mathematics (18 Hours)

Required Courses		Hours
MATH 181	Calculus I	3
MATH 182	Calculus II	4
	Math Electives (6 UD)	11

## MODERN LANGUAGES

**Chair:** Carlos H. Parra

**Faculty:** Pierre Nzokizwanimana

**Adjunct Faculty:** Darwin Ayscue, Claryce Caviness, Magdalena Jesiak, Jeffrey Jordan, Gwendolyn Smith

### Modern Languages

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, Spanish and Russian not only as living languages but also as reflections of many cultures.

The Modern Languages Department also offers majors in French and Spanish, minors in French, German, Italian, and Spanish; and language courses in Italian and Russian, 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 provides 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 opportunity and exposure to experience other cultures, the Modern Languages Department at Southern Adventist University strives in helping to overcome stereotypes and prejudices, foster 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 candidates' ability to compare and contrast the target culture with their own, and to show how they relate, contribute to, and enrich each other.

The assessment of students majoring in Spanish, and Spanish Teaching consists of a departmental oral and written examination. Candidates will demonstrate a passing degree of 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 America, but as part of global society.

## Foreign Study

Adventist Colleges Abroad. Southern Adventist University is a member of the consortium of colleges and universities which, under the auspice of the General Conference of Seventh-day Adventists, supports the Adventist Colleges Abroad program. ACA provides an opportunity for students of French, German, Italian, or Spanish to achieve proficiency in the foreign language amid the added advantages of an authentic cultural setting.

**Students can also contact ACA at:** [www.http://aca-noborders.org](http://aca-noborders.org)

The language schools operated by the following institutions are affiliates of ACA: in Austria, Seminar Schloss Bogenhofen, Braunau; in France, Centre Universitaire et Pédagogique du Salève, Collonges-sous-Salève; in Spain, Colegio Adventista de Sagunto, Sagunto; in Argentina, Universidad Adventista del Plata, Libertador San Martín; in Italy, Istituto Adventista Villa Aurora; in Germany, Friedensau Adventist University; in Mexico, Universidad de Montemorelos, and in Thailand (Chinese Mandarin), Mission College.

## 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 advisor 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 Spanish, French, German, and Italian.

**Language Emphasis.** American Sign Language (ASL) and Russian.

**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) during their last semester prior to graduation. Students will earn a minimum grade of “B-” in this 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 SAU will need to take three (3) upper division courses in their majors from the required course list, SPAN/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/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.

## Bachelor of Arts Degree

### Major—B.A. French (34 hours)

Required Core		Hours	Required Courses		Hours
ELIT 216	Approaches to Literature	3	<i>Select three (3) hours from the following:</i>		3
FREN 490	Comprehensive Exam Prep	1	ARTH 342	Renaissance Art History (W)	
<b>Required Courses</b>				OR	
<i>Select 27 hours from the following:</i>		27	ARTH 349	Medieval Art History (W)	
FREN 207	Intermediate French I		HIST 375	Ancient Mediterranean World (W)	
FREN 208	Intermediate French II		HIST 471	Classics of Wstrn Thought I (W)	
FREN 244	French Comp & Conv		HIST 472	Classics of Wstrn Thought II (W)	
FREN 305	French for Business				
FREN 344	Adv French Comp & Conv				
FREN 350	French Linguistics				
FREN 353	Contemp French Culture & Civ				
FREN 357	Survey Fren Med & Renais Lit (W)				
FREN 358	Survey Fren 17 <sup>th</sup> & 18 <sup>th</sup> Cent Lit (W)				
FREN 458	Survey Fren 19 <sup>th</sup> & 20 <sup>th</sup> Cent Lit (W)				
FREN 459	Francophone Cultures & Lit (W)				
MDLG 230	Critical Meth in Languages				

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.

### Major—B.A. French, Teacher Certification, 7-12 (31 hours)

Required Core		Hours	Required Courses		Hours
ELIT 216	Approaches to Lit	3	<i>Select three (3) hours from the following:</i>		3
FREN 207	Intermediate French I	3	FREN 357	Surv Fren Med & Ren Lit (W)	
FREN 208	Intermediate French II	3	FREN 358	Surv Fren 17 <sup>th</sup> & 18 <sup>th</sup> Cent Lit (W)	
FREN 244	French Comp & Conv	3	FREN 458	Surv Fren 19 <sup>th</sup> & 20 <sup>th</sup> Cent Lit (W)	
FREN 344	Adv French Comp & Conv	3	FREN 459	Francophone Cultures & Lit (W)	
FREN 350	French Linguistics	3			
FREN 353	Contemp Fren Culture & Civ	3	<i>Select three (3) hours from the following:</i>		3
FREN 490	Comprehensive Exam Prep	1	ARTH 342	Renaissance Art History (W)	
MDLG 230	Critical Meth in Languages	3	ARTH 349	Medieval Art History (W)	
			HIST 386	Rise of the West (W)	

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.

**Major—B.A. Spanish (34 hours)**

Required Courses	Hours
ELIT 216 Approaches to Literature	3
MDLG 230 Critical Meth in Languages	3
SPAN 207 Intermediate Spanish I	3
SPAN 208 Intermediate Spanish II	3
SPAN 243 Composition & Conversation	3
SPAN 354 Hispanic Civ & Culture	3
SPAN 355 Survey of Spanish Lit (W)	3
SPAN 356 Survey of Span-Amer Lit (W)	3
SPAN/ELIT 454 Latino Literature (W)	3
SPAN 490 Comprehensive Exam Prep	1

Required Courses, continued	Hours
<i>Select six (6) hours from the following:</i>	
HIST 351 Colonial Latin America (W)	6
HIST 375 Ancient Mediterranean World (W)	
HIST 386 Rise of the West (W)	
HIST 471 Classics of Wstrn Thought I (W)	
HIST 472 Classics of Wstrn Thought II (W)	

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.

**Major—B.A. Spanish, Teacher Certification, 7-12 (31 hours)**

Required Courses	Hours
ELIT 216 Approaches to Literature	3
MDLG 230 Critical Meth in Languages	3
SPAN 207 Intermediate Spanish I	3
SPAN 208 Intermediate Spanish II	3
SPAN 243 Comp & Conv	3
SPAN 354 Hispanic Civ & Culture	3
SPAN 355 Survey of Span Lit (W)	3
SPAN 356 Survey of Span-Amer Lit (W)	3
SPAN/ELIT 454 Latino Literature (W)	3
SPAN 490 Comprehensive Exam Prep	1

Required Courses continued	Hours
<i>Select three (3) hours from the following:</i>	
HIST 351 Colonial Latin America (W)	3
HIST 375 Ancient Mediterranean World (W)	
HIST 386 Rise of the West (W)	
HIST 471 Classics of Wstrn Thought I (W)	
HIST 472 Classics of Wstrn Thought II (W)	

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.

**Major—B.A. in International Studies with emphasis in French, German, Italian, or Spanish (36 Hours)**

- Language Component ..... 24 hours
  - 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 and 3 semester hours in Literature/History 18 hours

Humanities Component (at Southern).....	12 hours
ARTH 345 Contemporary Art (W)	
COMM 330 Intercultural Communication (W)	
ELIT 445 Ancient Classics (W)	
HIST 387 Europe in the Nineteenth Century (W)	
OR	
HIST 388 Contemporary Europe (W)	
TOTAL.....	36 hours

### Major—B.A. International Studies, French Emphasis (36 Hours)

Required Courses	Semester Hours	
FREN 207	Intermediate French I	3
FREN 208	Intermediate French II	3
*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	

*\*See Adventist Colleges Abroad Catalog for course descriptions*

### Major—B.A. International Studies, German Emphasis (36 Hours)

Required Courses	Semester Hours	
GRMN 207	Intermediate German	3
GRMN 208	Intermediate German	3
*GRMN 211	Intermediate Written Expr	
*GRMN 221	Intermediate Rdg Compreh	
*GRMN 254	Survey of German Lit	
*GRMN 306	Adv Oral Expression	
*GRMN 311	Adv Written Expression	
*GRMN 325	Adv Reading Comprehension	
*HIST 204	European Civilization	

*\*See Adventist Colleges Abroad Catalog for course descriptions*

### Major—B.A. International Studies, Italian Emphasis (36 Hours)

Required Courses	Semester Hours	
ITAL 207	Interm Italian I or equiv	3
ITAL 208	Interm Italian II or equiv	3
*GEOG 310	Geography of Italy	
*ITLN 212	Italian Culture	
*ITLN 313	Italian Culture II	
*ITLN 351/451	Italian Grammar	
*ITLN 361/461	Italian Composition	
*ITLN 471	Italian Conversation	
*ITLN 303	Italian History	
*ITLN 333	Italian Literature	
*ITLN 431	Italian Literature II	
*ITLN 230/330	History of Italian Art	

*\*See Adventist Colleges Abroad Catalog for course descriptions*

### Major—B.A. International Studies, Spanish Emphasis (36 Hours)

Required Courses	Semester Hours	ACA in Spain:
SPAN 207	Intermediate Spanish I	*SPAN 312 Spain and Its Culture
SPAN 208	Intermediate Spanish II	*SPAN 331 History of Spanish Lit
*SPAN 261	Interm Spanish Composition	
*SPAN 271	Interm Span Conversation	
*SPAN 351	Adv Spanish Grammar	<b>ACA in Argentina:</b>
*SPAN 361	Adv Spanish Composition	*SPAN 332 Latin American Literature
*SPAN 371	Adv Spanish Conversation	*SPAN 342 History of Argentina

*\*See Adventist Colleges Abroad Catalog for course descriptions*

**Minor— French (18 Hours)**

<b>Required Courses</b>		<b>Hours</b>
FREN 207	Intermediate French I	3
FREN 208	Intermediate French II	3
FREN 244	French Comp & Convers	3
FREN 344	Adv French Comp & Conv	3
FREN 350	French Linguistics	3
FREN 353	Contemp Fren Culture & Civ	3

**Minor—German (18 Hours)**

<b>Required Courses</b>		<b>Hours</b>
207-208	Intermediate Language	6
	UD Language Courses	6
	Elective Language Courses	6

**Minor— Italian (18 Hours)**

<b>Required Courses</b>		<b>Hours</b>
ITAL 207	Interm Italian I (or equiv ACA)	3
ITAL 208	Interm Italian II (or equiv ACA)	3

**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

**Minor—Spanish (18 Hours)**

<b>Required Courses</b>		<b>Hours</b>
SPAN 207	Intermediate Spanish I	3
SPAN 208	Intermediate Spanish II	3
SPAN 243	Comp & Conversation	3
SPAN 354	Hispanic Culture & Civ	3
SPAN 355	Survey of Spanish Lit (W)	3
SPAN 356	Survey of Span-Amer Lit (W)	3

*\*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 .*

See ACA Catalog for course descriptions.



# 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:** Bob Burks, Jan Cochrane, Patricia Dusold, Laura Elder, Robert Hansel, Julie Hobbs, Gordon James, Elaine Janzen, Nora Kile, Larry Otto, Mark Reneau, Sherilyn Samaan, Clinton Schmitt, Patricia Silver, James Stroud, Nikolasa Tejero, Doug Warner, Shari Ziesmer

## Music

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 keyboard proficiency by passing a piano proficiency examination or successfully completing Class Piano 1-4. Keyboard proficiency includes the ability to play hymns, scales, triads, arpeggios, several moderately easy compositions and accompaniments, and harmonize simple folk melodies. Students will take a piano placement test during the first week of the first semester in residence.

**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, six 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, 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, 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.
- Completion of MUCT 211-212,221-222.
- 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.

**Bachelor of Music Degree In Music Education**

The Bachelor of Music degree in music education meets state and denominational certification requirements. Students must apply for admission to the Teacher Education Program through the School of Education and Psychology prior to taking upper division education courses. Each student will be responsible to determine the additional courses that may be required for certification in the state of his/her choice. This information can be obtained at the School of Education and Psychology.

State certification and graduation requirements for Music Education majors include passing the Praxis II Specialty Test in Music Education at the 480 level.

The following General Education requirements apply only to students pursuing a Bachelor of Music degree:

A. Basic Academic Skills.....	15 hours
1. English	6 hours
2. Mathematics	3 hours
3. Computer	3 hours
4. Intro to Public Speaking	3 hours
B. Religion .....	12 hours
1. Biblical Studies (RELB)	3 hours
2. Religion: RELT 138, 255	6 hours
3. Upper division elective	3 hours
C. History .....	6 hours
D. Language, Literature, Fine Arts .....	3 hours
1. Literature	3 hours
E. Natural Sciences .....	6 hours
1. Biology	0-3 hours
2. Chemistry	0-3 hours
3. Physics	0-3 hours
4. Earth Science	0-3 hours

F. Behavioral, Family, Health Sciences .....	5 hours
1. HLED 173, PSYC 128	
G. Activity Skills .....	2 hours
1. Recreational Skills (PEAC 225 required)	2 hours
TOTAL .....	49 hours

**Music Core (42 Hours)**

Required Courses	Hours
MUCT 111-112 Music Theory I, II	6
MUCT 121-122 Aural Theory I, II	2
MUCT 211-212 Music Theory III, IV	6
MUCT 221 222 Aural Theory III, IV	2
MUCT 313 Orchestration & Arranging	3
MUHL 118 Musical Styles & Repertories	2
MUHL 320-323 Music history courses (W)	8
MUPF 273 Basic Conducting	1
MUPF 373 Choral Conducting	2
MUPF 374 Instrumental Conducting	2
Appropriate Ensembles	8

**Vocal/General Endorsement (20-24 Hours)**

**A. Voice Concentration (20)**

Concentration .....	12 hours
MUED 317 Voice Pedagogy .....	2 hours
MUPF 225 Singers Diction I .....	2 hours
MUPF 489 Senior Recital .....	2 hours
MU Elective .....	2 hours

**B. Keyboard Concentration (24)**

Concentration (Piano or Organ) .....	12 hours
Applied Music (Voice) .....	4 hours
MUED 317 Voice Pedagogy .....	2 hours
MUPF 279 Service Playing (Organ majors)	
OR .....	1,1 hours
MUPF 289 Accompanying (Piano majors)	
MUPF 489 Senior Recital .....	2 hours
MUED 316 Piano Pedagogy	
OR .....	2 hours
MUED 318 Organ Pedagogy	

**Instrumental Endorsement (24 Hours)**

Concentration (one instrument: wind, string, or percussion) .....	12 hours
Applied Music	
(one instrument from family outside of concentration 1,1) .....	2 hours
MUED 236 String Methods & Tech .....	2 hours
MUED 246 Brass Methods and Tech .....	2 hours
MUED 256 Woodwind Meth & Tech .....	2 hours
MUED 266 Percussion Meth & Tech .....	2 hours
MUPF 489 Senior Recital .....	2 hours

**Vocal/General and Instrumental Endorsement**

An applicant for endorsements in both areas above may complete a minimum of ten semester hours in methods and materials, provided both are represented.

**Professional Core (36 Hours)**

**MUED Courses:**

MUED 250 Technology in Music Education.....2  
 MUED 331 Music in the Elementary School .....3  
 MUED 332 Music in the Secondary School .....3  
 MUED 439 Pre-Student Teaching Seminar .....1

**EDUC Courses:**

EDUC 129 Introduction to and Foundations of Elementary Education  
 OR .....3  
 EDUC 138 Intro to and Foundations of Secondary Education  
 EDUC 217 Psychology Foundations of Education .....2  
 EDUC 325 Philosophy of Christian Education (W) .....2  
 EDUC 340 Foundations of Inclusive Education.....2  
 EDUC 356 Classroom Assessment.....2  
 EDUC 422 Behavior Management— Secondary.....2  
 EDUC 434 Reading and Writing in the Content Areas .....2  
 EDUC 464 Teaching Seminar .....2  
 EDUC 473 Enhanced Student Teaching K-12 .....10

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).

**Bachelor of Science Degree In Music**

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.

**Major—B.S. Music (47-60 Hours)****Music Core (35 Hours)**

<b>Required Courses</b>	<b>Hours</b>
MUCT 111-112 Music Theory I, II	6
MUCT 121-122 Aural Theory I, II	2
MUCT 211-212 Music Theory III, IV	6
MUCT 221-222 Aural Theory III, IV	2
MUHL 118 Music Styles & Repertoires	2
MUHL 320 Music of Mid Ages & Ren (W)	2

<b>Required Courses, continued</b>	<b>Hours</b>
MUHL 321 Mus Late Ren & Baro Era (W)	2
MUHL 322 Classic & Romantic Mus (W)	2
MUHL 323 Music in the 20 <sup>th</sup> Cent (W)	2
MUPF 273 Basic Conducting	1
Appropriate Mus Ensembles	8
(3 hrs must be UD)	

**General Track (12 Hours)**

<b>Required Courses</b>	<b>Hours</b>
MUPF 189 Concentration	4
MUPF 389 Concentration	3
MUPF 489 Senior Recital	2
UD Theory Elective	3

**Music Theory and Literature Track (16 Hours)**

<b>Required Courses</b>	<b>Hours</b>
MUPF 189 Concentration	4
MUPF 389 Concentration	4
MUCT 313 Orchestration & Arranging	
OR	3
MUCT 315 Compositional Techniques	
MUCT 413 Analysis of Musical Forms	3
MUHL 485 Music Seminar	2

<b>Cognate Requirement</b>	<b>Hours</b>
HMNT 205 Arts and Ideas	3
Foreign Language through the Beginning Level	6
(French or German required)	

**Music Performance Track (23-25 Hours)**

*Students are accepted into this track by audition only.*

<b>Required Courses</b>	<b>Hours</b>
MUPF 189 Concentration	8
MUPF 389 Concentration	6
MUPF 489 Senior Recital	2
MUCT 413 Analysis of Musical Forms	3

**Cognate Requirement**

Foreign Lang through the Beginning Level 6  
(French or German required, except for voice majors who may elect Italian)

**Specific area requirements as follows: Hours**

<b>For Piano Majors (4 Hours)</b>	<b>Hours</b>
MUED 316 Piano Pedagogy (2)	4-6
MUPF 289 Accompanying (1, 1)	

**For Voice Majors (6 Hours)**

MUED 317 Voice Pedagogy (2)	
MUPF 225-226 Singers Diction I,II (2,2)	

**For Organ Majors (4 Hours)**

MUED 318 Organ Pedagogy (2)	
MUPF 279 Service Playing (1,1)	

**For Orchestra/Band Instrument (4 Hours)**

MUPF 334 Chamber Music (1,1)	
MUPF 344 Instrumental Literature (2)	

### Minor—Music (20 Hours)

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.

<b>Required Courses</b>	<b>Hours</b>	<i>Select one (1) of the following courses:</i>	2
MUCT 111-112	Music Theory I and II	MUHL 320	Music Mid Ages & Renais (W)
MUHL 118	Musical Styles and Rep	MUHL 321	Music Late Ren & Baroque (W)
MUPF 189	Concentration	MUHL 322	Classic & Romantic Music (W)
MUPF 273	Basic Conducting	MUHL 323	Music in the 20 <sup>th</sup> Century (W)
MUPF 389	Concentration		
*Ensemble (at least two hours must be UD)	4		
MU elective	1		

\*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.

### Individual and Group Instruction

Courses MUPF 108, 129, and 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 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, 189, 329, 389, and 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.



# SCHOOL OF NURSING

**Dean:** Barbara James

**Faculty:** Pamela Ahlfeld, Desiree Batson, Judith Dedeker, Bonnie Freeland, Holly Gadd, Pam Gammenthaler, Lorella Howard, Jaclynn Huse, Cynthia Johnson, Frances Johnson, Dana Krause, Sylvia Mayer, Christine Moniyung, Christy Showalter, Elizabeth Snyder, Maria Valenca, Jillian Wills

**Adjunct Faculty:** Shirley Spears

**Coordinator of Nursing Admissions and Progression:** Linda Marlowe

## Mission Statement

The mission of the School of Nursing is to provide a Christian learning environment that values academic excellence and fosters personal and professional growth to meet the diverse needs of individuals, families, and communities.

## Accreditation

The programs in nursing are fully accredited by the National League for Nursing Accrediting Commission (NLNAC) (3343 Peachtree Road, NE, Suite 500, 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) examination. The TBN 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.

A laboratory fee is assessed per AS clinical class and per BS nursing class 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.

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 are encouraged to declare the BS degree when they apply to the University. Registered nurses with an AS degree from a nursing program accredited by the NLNAC may progress into BS level nursing 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. The curriculum leads to an AS degree in nursing which may be completed in four semesters, plus a summer once the student begins clinical nursing courses. Upon completion of the AS degree requirements, the student is eligible to take NCLEX-RN.

The curriculum in the BS Program enhances professional opportunities through study in theoretical and clinical nursing. The program may be completed in two to three semesters.

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, Nurse Educator, and a dual degree MSN/MBA with a focus on Health Care Administration (see SAU *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, and a tutorial program, Assisting Students to Achieve Professionally (ASAP) are provided to facilitate learning.

## Programs in Nursing

### Major—B.S. in Nursing (68 Hours)

(Includes 29 hours of AS level courses)

Required Courses*		Hours	Required Cognates		Hours
	AS Level Courses	29	CHEM 112	Survey of Chemistry II	3
NRSG 305	Adult Health III	4	RELT 373	Christian Ethics	3
NRSG 309	Nursing Seminar	4	SOCI 349	Aging and Society (W)	3
NRSG 316	Applied Statistics for Hlth Prof	3	<b>Required General Education**</b>		<b>Hours</b>
NRSG 322	Transitions in Prof Nrsng	3		Area B, Religion	3
NRSG 328	Nursing Assessment	3		Area C-1, History	3
NRSG 340	Community Hlth Nursing (W)	5		Area C or D	3
NRSG 364	Transcultural Nursing	2		Area G-3, PE	1
NRSG 389	Nursing Pharmacology	3			
NRSG 434	Pathophysiology	3			
NRSG 485	Nursing Leadership & Mgmt	3			
NRSG 497	Rsrch Methods in Nrsng (W)	3			
	Nursing Electives***	3			

Contact the School of Nursing for a suggested sequence of courses.

\*Course requirements vary for students in the accelerated RN-MSN program (See SAU *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 101-102, 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.

## Major—A.S. Nursing (38 Hours)

Required Courses		Hours	Required Cognates		Hours
NRSG 106	Fundamentals I	4	BIOL 101-102	Anatomy & Physiology	8
NRSG 107	Fundamentals II	4	BIOL 225	Basic Microbiology	4
NRSG 126	Adult Health I	4	CHEM 111	Survey of Chemistry I	3
NRSG 130	Mental Health	4	NRNT 125	Nutrition	3
NRSG 191	Nursing Practicum	1	PSYC 128	Developmental Psychology	3
NRSG 212	Childbearing Family	4	<b>Required General Education</b>		
NRSG 226	Adult Health II	4	COMM 135	Intro to Public Speaking	3
NRSG 231	Child Health	4	CPT 100	Computer Concepts (or waiver)	1
NRSG 240	Computers in Nursing	1	CPT 106	Intro to Spreadsheets (or waiver)	1
NRSG 305	Adult Health III	4	ENGL 101-102	College Composition	6
NRSG 309	Nursing Seminar	4		Area A-2, Math (if needed)	3
				Area B, Religion	6
			NOND 101	Southern Connections	1
			PEAC 225	Fitness for Life	1

## 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. Minimum requirements for admission to nursing courses are listed below:

1. Acceptance to Southern Adventist University.
2. A diploma from a four-year accredited high school or the equivalent.
3. Evidence of mental and moral fitness. References or information may be required.
4. A minimum of 550 on the Test of English as a Foreign Language (TOEFL) for students whose native language is not English.
5. Current American Heart Association Healthcare Provider CPR certification that must be maintained throughout the nursing program.
6. Signed release for a background check.
7. Signed release for drug screen.
8. 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.
9. Evidence through a health verification form and all required tests, including immunizations, that student is in good health and free from communicable diseases.
10. 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.

### **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 scores, university courses completed, advisor recommendation, and length of time at SAU when determining the fall and winter nursing classes.

Minimum requirements for admission to associate degree nursing courses are as follows:

1. Survey of Chemistry I and Anatomy and Physiology I 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); 20 in Reading (or Nelson-Denny); and 19 in English (if less than 19, an English class for credit is required).
3. Science credits (Anatomy & Physiology, Chemistry, Microbiology, Nutrition) earned more than eight years prior to admission will not be accepted. Applicants may choose to validate knowledge by examination or by repeating the course.
4. A minimum current and cumulative university grade point average of 2.80 on a 4.00 scale.
5. Students may 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.
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 NRS 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. ACT-PEP 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.

The following should be sent by February 1 (Fall 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**

Students wishing to enter BS nursing courses must send an application to the SON's Admissions Coordinator. Upon acceptance to the nursing program, courses listed in the current catalog will be required. All non-nursing course requirements must be met in order to complete BS nursing courses in one year.

Minimum requirements for admission to the baccalaureate nursing program are as follows:

1. Current license as a registered nurse in Tennessee or current multistate license with privilege to practice in the state of Tennessee prior to registering for the final semester.\*
2. A minimum grade point average of 2.50.
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. 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 NLNAC accredited Associate and Diploma Nursing Programs will have 29 credits of associate degree level nursing and eight (8) credits of upper division nursing (NRS 305,309) placed in escrow upon entrance to the BS program. After successfully completing 10 semester hours of BS nursing courses at Southern Adventist University, these credits held in escrow will be placed on the transcript as accepted credits toward a BS degree with a major in nursing.
7. General Education and Cognates: ACT-PEP examinations in Anatomy and Physiology (8 credits), Chemistry 111 (3 credits), and Microbiology (4 credits) will be accepted as an alternative method of university credit for RNs if these credits are already on the transcript when applying to the nursing program.

### **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 Life, and Computer Concepts and Spreadsheets provided that the GPA is 2.5 or above. If ENGL 101, 102, COMM 135, CPE 100, 106, PEAC 225 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 Adventist University if received from an accredited senior or junior college or by examination according to the policy stated in this *Catalog*.
- All cognates for the AS degree level must be completed before entering BS nursing courses. General Education requirements may be taken concurrently.

\*The student must be licensed in the state where clinical labs are completed

8. Students in third semester AS degree nursing courses may take: Applied Statistics for Health Professions (NRS 316), Nursing Assessment (NRS 328), Nursing Pharmacology (NRS 389), or Pathophysiology (NRS 434) if they have taken all general education and cognates for AS and BS nursing and if approved by BS faculty and student advisor.

## **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, 102; NRNT 125; PSYC 128; BIOL 225; CHEM 111.
3. One failed nursing course may be repeated.
4. 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 courses may be repeated after the student restarts. Readmission to the nursing program is on a space available basis.
5. 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”.
6. Students who do not complete a semester or progress with their class, cannot be assured placement in their choice of a subsequent course.
7. 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.
8. 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**

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 Adventist University (academic year or summer) must be approved by the Dean of the SON.

## **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. A personal interview with a designated nursing faculty member.
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 two years during a student's AS program.
7. Readmission will be on a space available basis.

# SCHOOL OF PHYSICAL EDUCATION, HEALTH AND WELLNESS

**Dean:** Phil Garver

**Faculty:** Robert Benge, Mike Boyd, Harold Mayer, Richard Schwarz, Judy Sloan

**Adjunct Faculty:** Susan Dawn, Jeff Erhard, Dwight Magers, Dennis Thompson, Diedri White

## Mission Statement

The mission of the School of Physical Education, Health and Wellness is to provide: 1) opportunities for students to experience a balanced Christian lifestyle, 2) major courses of study leading to professional careers and/or graduate school, 3) general education courses suitable for all students, 4) recreation for all students and employees, 5) campus-wide leadership for wellness, and 6) public relations opportunities through the Hulsey Wellness Center and the Gym Masters' program.

## Degrees Offered

- B.S. Health, Physical Education and Recreation
- B.S. Health Science
- B.S. Corporate/Community Wellness Management
- B.S. Sports Studies

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.

No grade lower than a C- will be accepted in cognate courses for degrees in the School of Physical Education, Health and Wellness.

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.

## 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.
- Review annual evaluations with advisor.

The results of the assessments are used to evaluate the school programs.

## Accreditation

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.



## Course Descriptions

- HLED Health Education and Wellness
- HLNT Nutrition
- PEAC Physical Education Activity
- PETH Physical Education Theory
- RECR Recreation

## Programs in Physical Education, Health, and Wellness

### Major—B.S. Health, Physical Education and Recreation (42 Hours) (Leading to Licensure K-12)

Required Courses		Hours	Required Courses, continued		Hours
PEAC 254	Lifeguarding	1	PETH 315	Physiology of Exercise (W)	4
PEAC 255	Water Safety Instr	1	PETH 363	Intro Meas/Rsrch Hlth & PE	3
PETH 113	ProAct – Racquetball	1	PETH 364	Prin & Admin PE & Rec (W)	3
PETH 114	ProAct – Softball	1	PETH 375	Motor Learning and Dev	3
PETH 115	ProAct – Flagball	1	PETH 437	Adaptive Physical Ed	2
PETH 116	ProAct – Volleyball	1	PETH 463	Elementary School PE Meth	2
PETH 117	ProAct – Basketball	1	PETH 474	Psych and Soc of Sports	2
PETH 119	ProAct – Soccer	1	RECR 268/269	Officiating Sports Analysis	2,2
PETH 214	ProAct – Tennis	1	<b>Required Cognates</b>		<b>Hours</b>
PETH 215	ProAct – Golf	1	<i>C- is the minimum grade accepted</i>		
PETH 216	ProAct – Fitness for Life	1	BIOL 101-102	Anatomy and Physiology	8
PETH 217	ProAct – Badminton	1	HLED 173	Health for Life	2
PETH 218	ProAct – Track and Field	1	HLED 373	Prev/Care Athl Injuries	2
PETH 219	ProAct – Gymnastics	1	HLED 473	Health Education Methods	2
PETH 240	Coaching for Success	2	HLNT 135	Nutrition for Life	3
PETH 314	Biomechanics	3			

### Professional Core (38 Hours)

	Hours
EDUC 129	Intro to Education
	OR.....
EDUC 138	Intro to and Foundations of Secondary Education
EDUC 217	Psychological Foundations of Education.....
PSYC 128	Developmental Psychology
	OR.....
EDUC 220	Growth Years
EDUC 319	Technology in Education.....
EDUC 325	Philosophy of Christian Education (W).....
EDUC 421	Behavior Management Elementary
	OR.....
EDUC 422	Behavior Management Secondary
EDUC 434	Reading and Writing in the Content Areas .....
EDUC 464	Teaching Seminar.....
EDUC 472	Enhanced Student Teaching K-12 .....
HLED 473	Health Education Methods.....
PETH 363	Intro to Tests and Measurements in Health & Physical Education .....
	(In place of EDUC 356 Classroom Assessment)
PETH 437	Adaptive Physical Education .....
	(In place of EDUC 340, Differentiating Instruction for Diverse Students)
PETH 441	Secondary Methods of Teaching PE .....
	(In place of EDUC 437 Curriculum and General Methods, Grades 7-12)

All non teacher education track Physical Education students will be directed to a Sports Studies track of their choosing.

Competency required in PEAC 143, Beginning Tumbling.

Skill deficiencies in each PETH activity unit, 113 through 119 and 214 through 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.

### Major—B.S. Corporate/Community Wellness Management (42 Hours)

Required Courses		Hours	Required Cognates		Hours
BIOL 101-102	Anatomy and Physiology	8	<i>C- is the minimum grade accepted</i>		
CHEM 111	Survey of Chemistry	3	ACCT 103	College Accounting	3
HLED 129	Introduction to Wellness	2	BMKT 326	Intro to Marketing	3
HLED 173	Health for Life	2	BUAD 358	Eth, Soc & Legal Env Bus (W)	3
HLED 229	Wellness Applications	2	CPTC 105	Intro to Word Process	1
HLED 356	Drugs and Society	2	ECON 213	Survey of Economics	3
HLED 373	Prev & Care Athletic Injuries	2	JOUR 105	Writing for the Media	3
HLED 470	Current Issues in Health	2	MGNT 334	Prin of Management	3
HLED 476	Wellness Meth, Mat & Mgmt	3	PSYC 128	Developmental Psych	3
HLED 491	Wellness Practicum	2	PSYC 377	Fund of Counseling (W)	3
HLNT 135	Nutrition for Life	3	SOCI 225	Marriage & Family	3
PEAC 225	Fitness for Life	1			
PETH 314	Biomechanics	3			
PETH 315	Physiology of Exercise (W)	4			
PETH 364	Prin & Admin of Phys Ed (W)	3			

### Major—B.S. Health Science (47 Hours)

Required Courses		Hours	Required Courses, continued		Hours
BIOL 101-102	Anatomy and Physiology	8	HLNT 135	Nutrition for Life	3
BIOL 225	Microbiology	4	MATH 215	Statistics	3
CHEM 151-152	General Chemistry	8	PEAC 225	Fitness for Life	1
HLED 173	Health for Life	2	PETH 314	Biomechanics	3
HLED 356	Drugs and Society	2	PETH 315	Physiology of Exercise (W)	4
HLED 373	Prev & Care Athletic Injuries	2	PETH 375	Motor Learning & Dev	3
HLED 470	Current Issues in Health	2		PETH/HLED UD Elective	2

**Major—B.S. Sports Studies (67-71 Hours)**

<b>Required Core Courses</b>		<b>Hours</b>	<b>Required Core Courses, continued</b>		<b>Hours</b>
BIOL 101-102	Anatomy and Physiology	8	PETH 113	ProAct—Racquetball	1
MATH 215	Statistics	3	PETH 114	ProAct—Softball	1
HLED 173	Health for Life	2	PETH 115	ProAct—Flagball	1
HLED 373	Prev & Care of Athl Injuries	2	PETH 116	ProAct—Volleyball	1
PETH 240	Coaching for Success	2	PETH 117	ProAct—Basketball	1
PETH 314	Biomechanics	3	PETH 119	ProAct—Soccer	1
PETH 315	Physiology of Exercise (W)	4	PETH 214	ProAct—Tennis	1
PETH 364	Prin & Adm of PE & Rec (W)	3	PETH 215	ProAct—Golf	1
PETH 375	Motor Learning & Dev	3	PETH 216	ProAct—Fitness for Life	1
PETH 474	Psyc & Sociology of Sport	2	PETH 217	ProAct—Badminton	1
	Professional Activities	12	PETH 218	ProAct—Track and Field	1
	Concentration	23-27	PETH 219	ProAct—Gymnastics	1

**Human Performance Concentration (67 Hours)**

	Sports Studies Core	44
BIOL 418	Animal Physiology	3
CHEM 111	Survey of Chemistry I	3
CHEM 113	Survey of Chemistry Lab I	1
HLNT 135	Nutrition for Life	3
PETH 325	Personal Trainer	2
PETH 363	In Meas/Rsrch Hlth & PE Ed	3
PETH 437	Adaptive Physical Education	2
PHYS 127	Exploring Physics I	3
PSYC 122	General Psychology	3

**Journalism Concentration**

		<b>(68 Hours)</b>
	Sports Studies Core	44
COMM 103	Intro to Communication	3
JOUR 105	Writing for the Media	3
JOUR 205	News Reporting	3
JOUR 316	Mag & Feature Article Wrt (W)	3
JOUR 427	Mass Media Law & Ethics	3
JOUR 488	Mass Comm & Society (W)	3
	<i>Select six (6) hours from the following:</i>	6
BRDC 314	Broadcast News Writing (W)	
JOUR 208	Publication Tools & Techniques	
JOUR 313	Publication Editing	
JOUR 356	Advanced Reporting (W)	

**Management Concentration (68 Hours)**

	Sports Studies Core	44
ACCT 221	Principles of Accounting	3
ACCT 321	Managerial Accounting	3
BMKT 326	Principles of Marketing	3
MGNT 334	Principles of Management	3
MGNT 344	Human Resource Mgmt	3
MGNT 368	Multicultural Management	3
MGNT 372	Small Business Management	3
MGNT 420	Organizational Behavior	3

**Marketing Concentration (68 Hours)**

	Sports Studies Core	44
ACCT 221	Principles of Accounting	3
BMKT 326	Principles of Marketing	3
BMKT 328	Sales Management	3
BMKT 375	International Marketing	3
MGNT 334	Principles of Management	3
MGNT 344	Human Resources Mgmt	3
MGNT 368	Multicultural Management	3
MGNT 372	Entrepren & Sm Bus Mgmt	3

**Psychology Concentration (70 Hours)**

	Sports Studies Core	44
EDUC 422	Behavior Management—Sec	2
PSYC 122	General Psychology	3
PSYC 297	Research Design & Stat I (W)	3
PSYC 315	Abnormal Psychology	3
PSYC 326	Physiological Psychology	3
PSYC 346	Intro to Personality Theories	3
PSYC 377	Fund of Counseling (W)	3
PSYC 384	Experimental Psychology	3
PSYC 497	Research Design & Stat II (W)	3

**Public Relations/Advertising Concentration (70 Hours)**

	Sports Studies Core	44
COMM 103	Intro to Communication	3
JOUR 105	Writing for the Media	3
JOUR 205	News Reporting	3
JOUR 427	Mass Media Law & Ethics	3
JOUR 488	Mass Comm & Society (W)	3
PREL 235	PR Principles & Theory	3
PREL 344	Fund of Advertising	3
PREL 355	Advertising Copywriting	3
COMM 406	Persuasion & Propaganda(W)	3

**Recreation Concentration (71 Hours)**

	Sports Studies Core	44
ACCT 103	College Accounting	3
HLNT 135	Nutrition for Life	3
OUTL 221	Challenge Course Facilitator	3
RECR 210	Aerobics Instructor Trainer	2
RECR 254	Lifeguarding	1
RECR 255	Water Safety Instructor	1
RECR 268,269	Officiating Sports Analysis	2,2
RECR 325	Personal Trainer	2
RECR 491	Recreation Practicum	2

**Select six (6) hours from the following:**

OUTL 148	Basic Horsemanship	6
OUTL 156	Land Navigation	
PEAC 141	Fly-Fishing	
PEAC 142	Canoeing	
PEAC 145	Basic Rock Climbing	
PEAC 146	White Water Rafting Guide	
PEAC 151	Scuba Diving	
PEAC 155	Basic Kayaking	
PEAC 212	Backpacking	
PEAC 214	Mountain Biking	

Note: In the Concentration that does not have a "W" course, students must take two "W" courses outside the major for graduation.

**Teaching Endorsement in Physical Education as a Minor (23 hours)**

<b>Required Courses</b>	<b>Hours</b>
HLED 373 Prevention & Care of Injuries	2
PETH 114-119 & 214-219	12 Pro Skills Courses
PETH 364 Admin of PE & Recreation (W)	3
PETH 441 Sec Phys Educ Methods	2
RECR 268/269 Officiating Sports Analysis	2,2

For those getting teacher certification in another area, these courses will be required for an additional endorsement in Physical Education rather than just a minor.

**Minor—Health and Wellness (18 Hours)**

<b>Required Courses</b>	<b>Hours</b>
HLED 173 Health for Life	2
HLED 229 Wellness Applications	2
HLED 356 Drugs and Society	2
HLED 470 Current Issues in Health	2
HLED 473 Health Education Methods	2
HLNT 135 Nutrition for Life	3

<b>Required Courses, continued</b>	<b>Hours</b>
<i>Select five (5) hours from the following:</i>	
HLED 129 Intro to Wellness	5
HLED 373 Prev & Care of Athletic Injuries	
HLED 476 Wellness Meth, Mat & Mgmt	
PETH 325 Personal Trainer	
PETH 495 Directed Study	
REL P 468 Health Evangelism	

**Minor—Physical Education (21 Hours)**

<b>Required Courses</b>	<b>Hours</b>
PETH 364 Prin/Admin Phys Ed (W)	3
RECR 268/269 Officiating Sports Analysis	2,2
Electives (3 must be UD)	6

<b>Required Courses, continued</b>	<b>Hours</b>
<i>Select eight (8) hours from the following:</i>	
PETH 113 ProAct – Racquetball	
PETH 114 ProAct – Softball	
PETH 115 ProAct – Flagball	
PETH 116 ProAct – Volleyball	
PETH 117 ProAct – Basketball	
PETH 119 ProAct – Soccer	
PETH 214 ProAct – Tennis	
PETH 215 ProAct – Golf	
PETH 216 ProAct – Fitness for Life	
PETH 217 ProAct – Badminton	
PETH 218 ProAct – Track and Field	
PETH 219 ProAct – Gymnastics	

# PHYSICS

**Chair:** Chris Hansen

**Faculty:** Ken Caviness, Henry Kuhlman

**Professor of International Research in Physics:** Ray Hefferlin

**Adjunct Faculty:** James Engel, Steven Kuhlman

## 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 Department offers B.S. and B.A. degrees in Physics, B.S. in Biophysics, and A.S. in Engineering Studies (see page 132).

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

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.

## Programs in Physics

### Major—B.A. Physics (30 Hours)

Required Courses		Hours	Strongly Recommended Electives		
PHYS 155	Descriptive Astronomy: Creation & Cosmology	3	CPT 105	Intro to Word Processing	1
PHYS 211-212	General Physics	6	CPT 106	Intro to Spreadsheets	1
PHYS 213-214	General Physics Lab	2	CPT 107	Intro to Database	1
PHYS 215,216	General Physics Calc Appl	2	PHYS 400	Physics Portfolio	1
PHYS 310	Modern Physics	3			
PHYS 412	Quantum Mechanics	3			
PHYS 480	Sci Wrtg & Presentation (W)	1			
	Physics Electives (7 UD)	10			

### Major—B.S. Physics (40 Hours)

Required Courses		Hours	Required Courses		Hours
PHYS 211-212	General Physics	6	PHYS 414-415	Electrodynamics	6
PHYS 213-214	General Physics Lab	2	PHYS 418-419	Advanced Quantum Mech	6
PHYS 215,216	General Physics CalcAppl	2	PHYS 295/495	Directed Study	1-3
PHYS 310	Modern Physics	3		OR	
PHYS 412	Quantum Mechanics	3	PHYS 297/497	Undergrad Research	1-2
PHYS 413	Analytic Mechanics	3	PHYS 480	Sci Wrtg & Presentation (W)	1
				Physics Electives	5-7

*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.*

### Major—B.S. Biophysics (41 Hours)

Required Courses		Hours	Required Cognates		Hours
BIOL 161-162	General Biology	10	MATH 200	Elementary Linear Algebra	2
BIOL 284	Intro to Biological Research	1	MATH 215	Statistics	3
BIOL 311	Genetics	4	MATH 218	Calculus III	4
BIOL 412	Cell & Molecular Biology	4	MATH 315	Differential Equations	3
BIOL 418	Animal Physiology	3	CHEM 151-152	General Chemistry	8
PHYS 211-212	General Physics	6	CHEM 311-312	Organic Chemistry	8
PHYS 213-214	General Physics Lab	2	CHEM 351	Biochemistry I	3
PHYS 215,216	General Physics Cal Appl	2			
PHYS 305	Biophysics	3			
PHYS 310	Modern Physics	3			
PHYS 325	Adv Physics Lab I	1			
PHYS 295/495	Directed Study				
	OR	1			
PHYS 297/497	Undergrad Rsrch in Physics				
PHYS 480	Sci Wrtg & Presentation (W)	1			

### Major—B.A. Physics, Teacher Certification, 7-12 (30 Hours)

Secondary certification in Physics requires a baccalaureate degree and completion of professional education courses (page 127) for licensure. Students preparing for secondary teacher certification must also take BIOL 103; CHEM 111-112; ERSC 105; and RELT 317. See explanations in 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).

<b>Required Courses</b>		<b>Hours</b>	<b>Required Cognates</b>		<b>Hours</b>
PHYS 155	Descriptive Astronomy	3	BIOL 103	Principles of Biology	3
PHYS 211-212	General Physics	3,3	CHEM 111-112	Survey of Chemistry	6
PHYS 213-214	General Physics Lab	2	ERSC 105	Earth Science	3
PHYS 215,216	Gen Physics Calculus Appl	2			
PHYS 310	Modern Physics	3	<i>Select three (3) hours from the following:</i>		3
PHYS 400	Physics Portfolio	1	PHYS 317	Issues in Phy Sci/Religion	
PHYS 412	Quantum Mechanics	3	BIOL 424	Issues of Nat Sci & Rlgn (W)	
PHYS 480	Sci Wrtg & Presentation (W)	1			
	Physics Electives (6 UD)	9			

### **Minor—Physics (18 Hours)**

<b>Required Courses</b>	<b>Hours</b>
Physics Electives	12
Upper Div Physics Courses	6

# SCHOOL OF RELIGION

**Dean:** Greg A. King

**Faculty:** Stephen Bauer, Michael G. Hasel, Douglas Jacobs, Judson Lake, Donn W. Leatherman, Carlos G. Martin, Alan Parker, Edwin Reynolds, Philip G. Samaan, Douglas Tilstra

**Research Professor of Systematic Theology:** Norman R. Gulley

**Adjunct Faculty:** Gordon Bietz, Jack J. Blanco, Fred Fuller, Greg Harper, John Nixon, Marla Samaan

**Adjunct Faculty for Evangelism:** Ron E. M. Clouzet, Jac Colon, Mark Finley, Robert Folkenberg Sr.

**Evangelism Resource Coordinator:** Stephanie Sheehan

**Museum Coordinator:** Justo Morales

## 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.

### **Mission 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, including ENGL 101, 102; COMM 135; RELB 125; RELT 138; RELP 150; RELL 221.
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 SAU.
4. A record of regular attendance at required activities of the SAU 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 SAU School of Religion Test of Elementary Biblical Knowledge.
8. Successful completion of the SAU School of Religion Test of Elementary Doctrinal Knowledge or RELT 255 Christian Beliefs.
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 advisor.
  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 advisor.
  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 advisor.
    - 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 SAU 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 advisor.
  - 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 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, 322, 361, 362, and 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.

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 the Religious Education Program**

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 on page 127 of this *Catalog*.

## 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 the Bible Instructor or Literature Evangelist Program

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.

### Major—B.A. Theology (34 Hours)

Required Courses		Hours	Required Courses, continued		Hours
RELB 125	Life and Teachings of Jesus	3	RELB 436	New Testament Studies II	3
RELB 245	Old Testament Studies I	3	RELT 138	Adventist Heritage	3
RELB 246	Old Testament Studies II	3	RELT 175	Christian Spirituality I	2
RELB 425	Studies in Daniel (W)	3	RELT 439	Prophetic Ministry of EGW	2
RELB 426	Studies in Revelation	3	RELT 484	Christian Theology I	3
RELB 435	New Testament Studies I	3	RELT 485	Christian Theology II (W)	3

*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		Hours	Required Cognates		Hours
RELL 181-182	Biblical Hebrew I, II	3,3	HIST 364-365	Christian Church I (W), II (W)	3,3
RELL 191-192	New Testament Greek I, II	3,3	PSYC 122	General Psychology	3
RELL 221	Intro to Biblical Exegesis	2	<i>Select one (1) course from the following:</i>		3
RELL 330	Intermediate Hebrew	3	BIOL 421	Issues in Sci & Society (W)	
RELL 331	Intermediate Greek	3	BIOL 424	Issues in Nat Sci & Religion (W)	
<b>Certification in Ministry</b>			PHYS 317	Issues in Phys Sci & Religion	
REL P 150	Introduction to Ministry	2			
REL P 270	Interpersonal Ministry	2			
REL P 321	Intro to Biblical Preaching	2			
REL P 322	Interm Biblical Preaching	2			
REL P 361-362	Personal Evangelism I, II	2,2			
REL P 405	Evangelistic Preaching	1			
REL P 423	Adv Biblical Preaching	2			
REL P 450, 452	Church Ministry I, II	3,3			
REL P 466	Public Evangelism	3			

*Note: The School recommends that those majoring in Theology or Pastoral Care not simultaneously take RELL 181-182 Biblical Hebrew I, II; RELL 191-192 New Testament Greek I, II; or RELL 330 Intermediate Hebrew and RELL 331 Intermediate Greek.*

### Major—B.A. Archaeology (32-35 Hours)

Core Courses		Hours
RELB 237	Archaeology and the OT	3
RELB 247	Archaeology and the NT	3
RELB 340	Middle East Study Tour	3
RELB 455	Archaeological Fieldwork	3
RELB 497	Archaeological Method & Theory	3

**Major—B.A. Archaeology (32-35 Hours), continued**

Choose one (1) concentration:

**Classical Studies Concentration (17 hours)**

		Hours
RELL 191	New Testament Greek I	3
RELL 192	New Testament Greek II	3
RELL 221	Intro to Biblical Exegesis	2
RELL 331	Intermediate Greek	3
RELB 435	New Testament Studies I	3
RELB 436	New Testament Studies II	3

**Required Cognates**

		Hours
ELIT 445	Ancient Classics (W)	3
HIST 497	Rsrch Methods in History (W)	3

**Recommended**

Interm French or German	6
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**Near Eastern Studies Concentration (20 Hours)**

		Hours
RELL 181	Biblical Hebrew I	3
RELL 182	Biblical Hebrew II	3
RELL 221	Intro to Biblical Exegesis	2
RELL 330	Intermediate Hebrew	3
RELB 245	Old Testament Studies I	3
RELB 246	Old Testament Studies II	3
RELT 458	World Religions (W)	3

**Required Cognates**

		Hours
HIST 497	Rsrch Methods in History (W)	3

**Recommended**

Interm French or German	6	
HIST 375	Ancient Mediter World (W)	3

**Major—B.A. Biblical Studies (31 Hours)****Required Courses**

		Hours
RELB 125	Life & Teachings of Jesus	3
RELB 237	Archaeology & the OT	3
RELB 245	Old Testament Studies I	3
RELB 246	Old Testament Studies II	3
RELB 247	Archaeology & the NT	3
RELB 425	Studies in Daniel (W)	3
RELB 426	Studies in Revelation	3
RELB 435	New Testament Studies I	3
RELB 436	New Testament Studies II	3
RELB 495	Directed Study (Senior Proj)	2
RELL 221	Intro to Biblical Exegesis	2

**Required Cognates**

		Hours
RELL 181	Biblical Hebrew I	3
RELL 182	Biblical Hebrew II	3
RELL 330	Intermediate Hebrew	3
	OR	9
RELL 191	New Testament Greek I	3
RELL 192	New Testament Greek II	3
RELL 331	Intermediate Greek	3

**Major—B.A. Missions (34 Hours)****Required Courses**

		Hours
RELB 125	Life & Teachings of Jesus	3
RELB 245	Old Testament Studies I	3
	OR	3
RELB 246	Old Testament Studies II	3
RELB 425	Studies in Daniel (W)	3
RELB 426	Studies in Revelation	3
RELB 435	New Testament Studies I	3
	OR	3
RELB 436	New Testament Studies II	3
REL P 264	Christian Witnessing	3
REL P 291	Practicum (Home Missions)*	1
REL P 391	Prac (Overseas Missions)**	2
REL P 340	World Missions	3
REL P 405	Evangelistic Preaching	1
REL P 468	Health Evangelism	3
RELT 255	Christian Beliefs	3
RELT 458	World Religions (W)	3

**Required Cognates**

		Hours
COMM 330	Intercultural Comm (W)***	3
HMNT 215/415	Cross-Cultural Experience***	3
SOCI 150	Cultural Anthropology	3
	Intermediate Foreign Lang	3-6

\*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 Practicum by conducting an evangelistic series outside North America under the supervision of the Evangelistic Resource Center.

\*\*\*These courses require admission to the Student Missions program and successful completion of one academic year of student mission experience.

**Major—B.A. Pastoral Care (33 Hours)**

<b>Required Courses</b>		<b>Hours</b>	<b>Required Courses, continued</b>		<b>Hours</b>
RELB 125	Life & Teachings of Jesus	3	RELB 436	New Testament Studies II	3
RELB 245	Old Testament Studies I	3	RELP 150	Intro to Ministry	2
RELB 246	Old Testament Studies II	3	RELT 138	Adventist Heritage	3
RELB 425	Studies in Daniel (W)		RELT 175	Christian Spirituality I	2
	OR	3	RELT 439	Prophetic Ministry of EGW	2
RELB 426	Studies in Revelation		RELT 484	Christian Theology I	3
RELB 435	New Testament Studies I	3	RELT 485	Christian Theology II (W)	3

*In order to graduate with a major in Pastoral Care, a student must also complete 20 hours for Certification in Biblical Languages, 19 hours for Certification in Pastoral Care, and cognate requirements as follows:*

<b>Certification in Biblical Languages</b>		<b>Hours</b>	<b>Required Cognates</b>		<b>Hours</b>
RELL 181-182	Biblical Hebrew I, II	3,3	HIST 364-365	Christian Church I, II (W)	3,3
RELL 191-192	New Testament Greek I, II	3,3	PSYC 122	General Psychology	
RELL 221	Intro to Biblical Exegesis	2		OR	3
RELL 330	Intermediate Hebrew	3	PSYC 128	Developmental Psychology	
RELL 331	Intermediate Greek	3	PSYC 377	Fund of Counseling (W)	3
<b>Certification in Pastoral Care</b>			<b>Hours</b>		
RELP 270	Interpersonal Ministry	2	SOCI 225	Marriage and the Family	3
RELP 321	Intro to Biblical Preaching	2	SOCI 249	Death and Dying	2
RELP 322	Interm Biblical Preaching	2		<i>Select one (1) course from the following:</i>	3
RELP 361	Personal Evangelism I	2	BIOL 421	Issues in Sci & Society (W)	
RELP 362	Personal Evangelism II	2	BIOL 424	Issues in Nat Sci & Religion (W)	
RELP 391	Practicum	3	PHYS 317	Issues in Phys Sci & Religion	
RELP 450	Church Ministry I	3			
RELP 452	Church Ministry II	3			

**Major—B.A. Religious Education Licensure 7-12 (34 Hours)**

<b>Required Courses</b>		<b>Hours</b>	<b>Required Courses, continued</b>		<b>Hours</b>
RELB 125	Life and Teachings of Jesus	3	RELB 436	New Testament Studies II	3
RELB 245	Old Testament Studies I	3	RELT 138	Adventist Heritage	3
RELB 246	Old Testament Studies II	3	RELT 175	Christian Spirituality I	2
RELB 425	Studies in Daniel (W)	3	RELT 439	Prophetic Ministry of EGW	2
RELB 426	Studies in Revelation	3	RELT 484	Christian Theology I	3
RELB 435	New Testament Studies I	3	RELT 485	Christian Theology II (W)	3

*Must include 35 hours in Education and 16 hours of cognate requirements as follows:*

<b>Professional Education Requirements</b>		<b>Hours</b>	<b>Required Cognates</b>		<b>Hours</b>
EDUC 138	Intro to & Fnd Sec Educ	3	HLED 173	Health for Life	2
EDUC 220	Growth Years		RELL 181-182	Biblical Hebrew I, II	
	OR	3		OR	3, 3
PSYC 128	Developmental Psychology		RELL 191-192	New Testament Greek, I, II	
EDUC 217	Psyc Foundations of Educ	2	RELL 221	Intro to Biblical Exegesis	2
EDUC 319	Technology in Education	3	RELP 150	Introduction to Ministry	2
EDUC 325	Phil of Christian Educ (W)	2	RELP 321	Intro to Biblical Preaching	2
EDUC 340	Fnds of Inclusive Educ	2	RELP 322	Interm Biblical Preaching	2
EDUC 356	Classroom Assessment	2		<i>Select one (1) course from the following:</i>	3
EDUC 422	Behavior Management—Sec	2	BIOL 421	Issues in Sci & Society (W)	
EDUC 434	Rdg & Wrtg in Content Areas	2	BIOL 424	Issues in Nat Sci & Religion (W)	
EDUC 437	Curric & Gen Meths, 7-12	1	PHYS 317	Issues in Phys Sci & Religion	
EDUC 438	Curric Content Meths/Rlgn	1			
EDUC 464	Teaching Seminar	2			
EDUC 472	Enhanced Stu Tchg 7-12	10			

**Major—B.A. Religious Studies (32 Hours)**

Required Courses		Hours
RELB 125	Life and Teachings of Jesus	3
RELB 245	Old Testament Studies I OR	3
RELB 246	Old Testament Studies II	
RELB 435	New Testament Studies I	3
RELB 436	New Testament Studies II	3
RELP 264	Christian Witnessing	3

Required Courses		Hours
RELT 138	Adventist Heritage	3
RELT 175	Christian Spirituality I	2
RELT 255	Christian Beliefs	3
RELT 373	Christian Ethics	3
RELT 458	World Religions (W)	3
RELT 467	Christian Phil & Wrlview (W)	3

**Major—A.A. Religion (29-31 Hours)**

This degree is designed to prepare the student to be effective in lay ministry as a Bible instructor or literature evangelist.

Core Courses		Hours
RELB 125	Life and Teachings of Jesus	3
RELB 245	Old Testament Studies I OR	3
RELB 246	Old Testament Studies II	
RELB 435	New Testament Studies I OR	3
RELB 436	New Testament Studies II	
RELP 361	Personal Evangelism I	2
RELP 362	Personal Evangelism II	2
RELT 138	Adventist Heritage	3
RELT 175	Christian Spirituality I	2
RELT 255	Christian Beliefs	3

Choose one (1) concentration:

Required Courses for Bible Instructor		Hours
RELB 425	Studies in Daniel (W) OR	3
RELB 426	Studies in Revelation	
RELP 291	Practicum: Evangelism	3
RELP 321	Intro to Biblical Preaching	2
RELP 270	Interpersonal Ministry	2

**Required Courses for Literature Evangelist**

		Hours
PREL 291/391	Practicum: Sales OR	3
PREL 492	Public Rel Internship: Sales	
COMM 406	Persuasion and Propaganda	3
Cognate for both emphases		Hours
PSYC 122	General Psychology OR	3
PSYC 128	Developmental Psychology	

**Minors in Archaeology, Biblical Languages, Christian Service, Missions, Practical Theology, Religion, and Youth Ministry****Minor—Archaeology (18 Hours)**

Required Courses		Hours
RELB 245	Old Testament Studies I	
RELB 246	Old Testament Studies II OR	3,3
RELB 435	New Testament Studies I	
RELB 436	New Testament Studies II	

Required Courses, continued		Hours
RELB 237	Archaeology and the OT	3
RELB 247	Archaeology and the NT	3
RELB 455	Archaeological Fieldwork	3
RELB 497	Archaeological Meth & Theory	3

**Minor—Biblical Languages (20 Hours)**

Required Courses		Hours
RELL 181, 182	Biblical Hebrew I, II	3,3
RELL 191, 192	New Testament Greek I, II	3,3

Required Courses, continued		Hours
RELL 221	Intro to Biblical Exegesis	2
RELL 330	Intermediate Hebrew	3
RELL 331	Intermediate Greek	3

**Minor—Christian Service (18 Hours)**

Required Courses		Hours
RELB 125	Life and Teachings of Jesus	3
RELT 138	Adventist Heritage OR	3
RELT 255	Christian Beliefs	

Required Courses, continued		Hours
RELP 264	Christian Witnessing	3
RELP	Electives (6 hrs must be UD) (May incl HMNT 215/415 Cross-Cultural Experience)	9

### Minor—Missions (23 Hours)

Required Courses		Hours	Required Courses, continued		Hours
RELB 125	Life and Teachings of Jesus	3	COMM 291*	Intercultural Comm Prac	3
RELP 240	World Missions	3		OR	
RELP 361	Personal Evangelism I	2	HMNT 215/415*	Cross-Cultural Geography	3
RELP 466	Public Evangelism (must be outside USA)	3	SOCI 150	Cultural Anthropology	
RELT 255	Christian Beliefs	3	SOCI 230	Multicultural Relations	
RELT 458	World Religions (W)	3			

\*These courses require admission to the Student Missions Program and successful completion of one academic year of student mission experience.

### Minor—Practical Theology (19 Hours)\*

Required Courses		Hours	Required Courses, continued		Hours
RELP 270	Interpersonal Ministry	2	RELP 450, 452	Church Ministry I, II	3,3
RELP 321	Intro to Biblical Preaching	2	RELP 466	Public Evangelism	3
RELP 322	Interm Biblical Preaching	2			
RELP 361-362	Personal Evangelism I, II	2,2			

\*Non-theology majors must obtain permission from the School of Religion.  
Prerequisites apply to RELP 321.

### Minor—Religion (18 Hours)

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 438 Curriculum and Content Methods/Bible, Grades 7-12 (1 hour).

Required Courses		Hours
RELB 125	Life & Teachings of Jesus	3
RELT 138	Adventist Heritage	3
	AND	
	UD RELB or RELT Courses	6
	Religion Electives (may incl RELP)	6

No more than one of the following courses may be chosen to apply toward the minor:  
RELT 317, 424.

### Minor—Youth Ministry (21 Hours)

Required Courses		Hours
EDOE 301	Outdoor Ministries	3
	OR	
OUTL 136	Surv of Outdoor Adventures	3
PSYC 422*	Issues in Adolescence	
RELP 251	Intro to Youth Ministry	3
RELP 252*	Interm Youth Ministry	3
RELT 255	Christian Beliefs	3
RELB 245*	Old Testament Studies I	3
	OR	
RELB 246*	Old Testament Studies II	3
RELB 435	New Testament Studies I	
	OR	
RELB 436	New Testament Studies II	

\*Academic requirements apply

# SOCIAL WORK AND FAMILY STUDIES

**Chair:** Renè Drumm

**Faculty:** Evie Nogales Baker, Terrie Long (Director of Field), Octavio Ramirez (Director, Social Work Program), Stanley Stevenson (Stipend Program Coordinator)

**Adjunct Faculty:** Edward Lamb, professor emeritus

**Website:** swfs.southern.edu

## Philosophy

The philosophy of the Social Work and Family Studies Department 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 Social Work and Family Studies Department 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 Social Work and Family Studies

The Social Work and Family Studies Department offers a degree in Social Work (accredited by the Council on Social Work Education) and in Family Studies. Minors are also available in Behavioral Science, Family Studies, and Sociology.

The curricula for both the BSW and Family Studies degrees include computer content and hands-on experience intended to enable majors to develop elementary skills including word processing, spreadsheet, database, Internet, CD ROMS, interactive videos, and statistical analysis. Majors are encouraged to have their own personal computers (PCs) if possible.

## 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 National Association of Social Workers and the Phi Alpha Honor Society. Social Work Month is celebrated each March. The Edward Lamb Community Scholarship Fund provides opportunity to develop fund raising skills, socialization for social service commitment, and monies for the educational expenses of exemplary students.

## **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 *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.

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 into SAU's social work program occurs through an application process. 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 office manager in the program office or on the Social Work and Family Studies website. The deadline for turning all application materials into the program office is in the school calendar and the *SAU Social Work Program Handbook*. The final decision on acceptance into the program is made by the Admission and Progressions Committee (program director and one other faculty member).

Minimum requirements for admission to the program are listed below:

1. Acceptance to Southern Adventist University.
2. Completion of the application form, an autobiographical statement, and a written essay on a specific social issue.
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, SOCW 212: Social Welfare as an Institution, and SOCW 213: Interviewing Skills. Having completed cognate courses BIOL 103: Principles of Biology, PSYC 122: General Psychology, and SOCI 125: Introduction to Sociology. 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 as noted on the Activity Verification Form (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 Admission and Progressions Committee.

The Committee reviews the application material, conducts the interview, and makes a decision concerning the application. Applicants are notified of the Committee'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 Admission and Progressions Committee. 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 put into practice the theories and skills they have 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 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

SOCW 311, Human Behavior and the Social Environment I

SOCW 312, Human Behavior and the Social Environment II

SOCW 315, Social Work Practice II

SOCW 391, Junior Field Practicum

## Family Studies

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.

### Department Study Tours

The Social Work and Family Studies Department 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, SOCW 296/496).

### Major—B.S. Family Studies (44 Hours)

Required Courses		Hours	Required Cognates		Hours
PSYC 122	General Psychology	3	MATH 215	Statistics	3
PSYC 128	Developmental Psych	3		Area E-1, Biology	3
PSYC 315	Abnormal Psychology	3			
SOCI 125	Intro to Sociology	3			
SOCI 150	Cultural Anthropology	3			
SOCI 201	Parenting	3			
SOCI 225	Marriage and the Family	3			
SOCI 233	Human Sexuality	3			
SOCI 245	Appalachian Studies	2			
SOCI 349	Aging and Society (W)	3			
SOCI 360	Family Life Education	3			
SOCI 365	Family Relations	3			
SOCI 491	Family Studies Practicum	3			
SOCW 211	Intro to Social Work	3			
SOCW 497	Research Methods (W)	3			

### Major—B.S.W., Social Work (42 hours)

Required Courses		Hours	Required Cognates		Hours
SOCW 211	Intro to Social Work	3	BIOL 103	Principles of Biology	3
SOCW 212	Social Welfare as Inst	3	ECON 213	Survey of Economics	
SOCW 213	Interviewing Skills	3		OR	3
SOCW 310	Social Work Practice I (W)	4	PLSC 254	American Natl & State Govt	
SOCW 311	Human Behav & Social Envir I	3	MATH 215	Statistics	3
SOCW 312	Human Behav & Soc Envir II	3	PSYC 122	General Psychology	3
SOCW 315	Social Work Practice II (W)	3	SOCI 125	Intro to Sociology	3
SOCW 391	Junior Field Practicum	1			
SOCW 433	Social Work Practice III	3			
SOCW 434	Social Welfare Issues	3			
SOCW 435	Social Work Practicum I	4			
SOCW 436	Social Work Practicum II	4			
SOCW 441	Integrative Seminar I	1			
SOCW 442	Integrative Seminar II	1			
SOCW 497	Research Methods (W)	3			

### Minor—Behavioral Science (18 hours)

Required Courses		Hours
PSYC 122	General Psychology	3
SOCI 125	Intro to Sociology	3
SOCW 211	Intro to Social Work	3
	*Electives (6 UD)	9

*\*An additional nine hours selected from any Social Work and Family Studies areas with a minimum of six hours of upper division Social Work and Family Studies classes.*

### Minor—Family Studies (20 hours)

Required Courses		Hours
SOCI 201	Parenting	3
SOCI 225	Marriage and Family	3
SOCI 233	Human Sexuality	3
SOCI 365	Family Relations	3

Select eight (8) hours from following:		Hours
PSYC 128	Developmental Psych	3
PSYC 422	Issues in Adolescence	3
PSYC 479	Family Counseling	3
SOCI 349	Aging and Society (W)	3
SOCI 360	Family Life Education	3

### Minor—Sociology (18 Hours)

Required Courses		Hours
SOCI 125	Intro to Sociology	3
SOCI 150	Cultural Anthropology	3
	Sociology Electives (6 UD)	12

# TECHNOLOGY

**Chair:** Dale Walters

**Faculty:** Ray Carson

**Adjunct Faculty:** Wendel Adams, Mark Byford, Mark McGrath

**Professional Advisory Board:** The Advisory Board serves in a consultancy capacity and assists in referrals for practicum.

Don Britton, Owner, Don Britton Transmission

Kel Burgoyne, Structural Steel Drafting Detailer

Joe Farrow, Engineer

Dan Gebhard, Plumber

Michael Holman, General Contractor/Drafter

Steven Karst, General Contractor

Dave Turner, General Contractor

Fred Turner, Architect

J. B. Underwood, Owner, Collegedale Central Exxon

The Technology Department offers courses which provide opportunity to balance learning with practical experience in the areas of woods, metals, printing, drafting, auto service and construction. Objectives of these classes are:

1. To develop practical skills which will be useful throughout life as professional enhancement as well as hobby and recreational activities.
2. To introduce the student to opportunities in technical and service occupations.
3. To provide background for entrance into specialized technical and professional degree programs and occupations.
4. To help the student learn to meet the challenges of daily living by providing “hands-on” experiences with elements of the environment.
5. To provide opportunity for the student to develop tactile learning skills.
6. To assist the student in growing toward his potential by providing classroom and lab experiences that nurture critical thinking and creativity.

## 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.

## Majors—B.S. Business Administration and A.T. Auto Service (83 Hours)

### Business Administration (43 Hours)

#### Auto Service (40 Hours)

Required Courses	Hours
ACCT 221-222 Principles of Accounting	3,3
ACCT 321 Managerial Accounting	3
BUAD 105 Business Spreadsheets	3
BUAD 310 Business Communication (W)	3
BUAD 317 Mgmt Information Systems	3
BUAD 339 Business Law	3
BUAD 358 Eth, Soc, & Leg Env of Bus(W)	3
BUAD 288/488 Seminar in Business Admin	1
BMKT 326 Principles of Marketing	3
ECON 224 Prin of Macroeconomics	3
ECON 225 Prin of Microeconomics	3
FNCE 315 Business Finance	3
MGNT 334 Principles of Management	3
MGNT 464 Business Strategies (W)	3
Required Cognates	Hours
BUAD 104 Business Software	3
BUAD 128 Personal Finance	3
BUAD 221 Business Statistics	3

Required Courses	Hours
TECH 114 Oxy-Acetylene Welding	1
TECH 115 Arc Welding	2
TECH 166 Auto Electrical Systems	2
TECH 167 Suspension, Steering & Align	3
TECH 168 Man Drive Train, & Axles	3
TECH 169 Automotive Brakes	3
TECH 175/375 Engine Rebuild & Machining	4
TECH 178 Heating & Air Conditioning	2
TECH 230 Automatic Transmission	3
TECH 264 Automotive Repair	3
TECH 273 Estimating & Auto Bus Prac	1
TECH 276/377 Engine Performance & Cptrs	3
TECH 277 Eng Fuel & Emission Controls	4
TECH 291 Practicum	3
TECH 299 Adv Engine Performance	3

Required Cognates	Hours
MGNT 371 Prin of Entrepreneurship	3
MGNT 372 Small Business Management	3

### Major—A.T. Architectural Drafting (24 Hours)

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	Hours
TECH 148 Methods & Materials of Const	3
TECH 149 Intro to Mech Drwg & CADD	3
TECH 150 Blueprint Reading	3
TECH 151 Intro to Arch Drafting & CADD	3
TECH 248 CADD Mechanical	3
TECH 328 Adv Architectural Drafting	3
TECH 348 3D CAD Drafting	3
TECH 492 Internship	3

Required Cognates	Hours
ACCT 103 College Accounting	3
ART 104 Drawing I	3
ART 109 Design Principles I	3
BUAD 126 Intro to Business	3
MATH 120 Precalculus Algebra	3
MATH 121 Precalculus Trigonometry	2
MGNT 371 Prin of Entrepreneurship	3
MGNT 372 Small Business Management	3
TECH 278 History of Architecture	3

General Education	Hours
COMM 135 Intro to Public Speaking	3
BUAD 104 Business Software	
OR	3
CPTC 100/5/6 Cptr Conc/Word Processing/ Spreadsheets	
ENGL 101 College Composition	3
PEAC 225 Fitness for Life	1
PSYC/SOCI Behavioral Science	2-3
RELB/RELP/ RELT Religion	3

### Major—A.T. Auto Service (40 Hours)

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		Hours
TECH 114	Oxy-Acetylene Welding	1
TECH 115	Arc Welding	2
TECH 166	Auto Electrical Systems	2
TECH 167	Suspension, Steering, Align	3
TECH 168	Man Drive Train, & Axles	3
TECH 169	Automotive Brakes	3
TECH 175/375	Eng Rebuilding & Machining	4
TECH 178	Heating and Air Conditioning	2
TECH 230	Automatic Transmission	3
TECH 264	Automotive Repair	3
TECH 273	Estimating & Auto Bus Prac	1
TECH 276/377	Engine Perform & Computers	3
TECH 277	Eng Fuel & Emission Controls	4
TECH 291	Practicum	3
TECH 299	Adv Engine Performance	3

Required Cognates		Hours
ACCT 103	College Accounting	3
BUAD 126	Intro to Business	3
MGNT 371	Prin of Entrepreneurship	3
MGNT 372	Small Business Management	3

General Education		Hours
AREA A	ENGL 101; MATH 106 or Higher; BUAD 104 or CPTE 100,105,106	9
AREA B	Religion	3
AREA F	Behavioral, Family, Health Sciences	2
AREA G	PEAC 225	1

### Major—A.T. Construction Management (33 Hours)

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		Hours
TECH 104	Field Engineering	1
TECH 117	Industrial Safety	2
TECH 124	Plumbing	2
TECH 130	House Wiring	2
TECH 148	Methods & Materials of Const	3
TECH 150	Blueprint Reading	3
TECH 151	Intro to Arch Drafting & CADD	3
TECH 153	Masonry and Foundations	2
TECH 157	Interiors, Finish and Trim	2
TECH 161	Carpentry	4
TECH 165	HVAC	2

Required Courses continued		Hours
TECH 252	Building Codes	2
TECH 255	Construction Estimating	3
TECH 262	Construction Contract Admin	2

Required Cognates		Hours
ACCT 103	College Accounting	3
MGNT 334	Principles of Management	3
MGNT 371	Prin of Entrepreneurship	3
MGNT 372	Small Business Management	3

## Major—A.T. Construction Management (33 Hours), continued

General Education		Hours
COMM 135	Intro to Public Speaking	3
BUAD 104	Business Software OR	3
CPTC 105/6/7	Word Proc/Spreadsheets/ Database	
ENGL 101	College Composition	3
MATH 107	Survey of Math or Math Elective	3
PEAC 225	Fitness for Life	1
PSYC/SOCI	Behavioral Science	3
RELB/RELP/ RELT	Religion	3

## Minor—Auto Service (18 Hours)

Required Courses		Hours
TECH 115	Arc Welding	2
TECH 166	Auto Electrical Systems	2
TECH 264	Automotive Repair	3
TECH 175/375	Engine Rebuilding & Machining	4
TECH 276/377	Engine Perform & Computers	3
	Auto Service Elective	4
	(Six [6] hrs must be UD)	

## Minor—Technology (18 Hours)

Twelve (12) hours lower division Technology classes  
Six [6] hours upper division Technology classes

## Certificate Program

### Auto Service Technician (32 Hours)

A one year certificate will be awarded for completing the technical classes of the associate program listed below plus one religion class.

Required Courses	Hours	Required Courses, continued	Hours
TECH 114	Oxy-Acetylene Welding	TECH 178	Heating & Air Conditioning
TECH 115	Arc Welding	TECH 264	Automotive Repair
TECH 166	Auto Electrical Systems	TECH 276	Engine Perform & Cptrs
TECH 167	Suspension, Steering, Align	TECH 277	Eng Fuel & Emission Control
TECH 168	Man Drive Train, & Axles		Auto Service Elective
TECH 175	Eng Rebuilding & Machining		RELT or RELB

Students will be encouraged to purchase a basic set of tools as employers require employees to provide their own air and hand tools.

# SCHOOL OF VISUAL ART AND DESIGN

**Dean:** John Williams

**Faculty:** Aaron Adams, Randall Craven, Brian Dunne, David George, Zachary Gray, Ed Guthero, Giselle Hasel, Clint Ratliff, Dean Scott, Kenneth Willes

**Adjunct Faculty:** John Cline, Terry Dietrich, John Simmons, Andrew Strong

**Visiting Professors:** Hendel Butoy, Rik Swartzwelder

**Production Company Manager:** Leif Ramsey

## Industry Advisors:

**Animation:** Sean Amlaner, Michael Hutchinson, Kevin Jackson, Kevin Lee, Jeff MacNeil

**Film:** Mark Thomas

**Fine Art:** Chang Park, Eun Ju Kang

## 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.

## Programs of Study

### Art

- B.A. Art
- B.A. Art Therapy (pre-professional)
- B.F.A. Fine Arts
- Minor—Art
- Minor—Art History

### Art Education

- B.F.A. Art Education
- Minor—Art Education

### Animation

- B.S. Animation
  - Character
  - Effects
- B.S. Technical Animation

### Film Production

- B.S. Film Production

### Graphic Design

- B.S. Graphic Design
  - Print
  - Web
- A.S. Graphic Design
- Minor—Graphic Design

### Interactive Media

- B.S. Interactive Media

## 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 by 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.

## 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 School of Visual Art and Design. 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, that are specific to the major, must be approved by this review process before a student is allowed to register for classes in the School of Visual Art and Design.

## Studio Courses

Many courses offered by SVAD are considered Studio Courses. Studio Courses are provided in large blocks of time because much of the coursework involves individual/collaborative creativity, problem solving, and is skill-based. The extended time is designed 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.

### Major—B.A. Art (31 Hours)

Required Courses	Hours	Select six (6) hours from the following:	6
ART 104	Drawing I	ARTH 318	Art Appreciation (W)
ART 105	Drawing II	ARTH 342	Renaissance Art History (W)
ART 109	Design Principles I	ARTH 344	Ancient Art History (W)
ART 499	Senior Project	ARTH 345	Contemporary Art (W)
	Art Electives (7 hrs UD)	ARTH 349	Medieval Art History (W)

### Major—B.A. Art-Therapy Emphasis (31 Hours)

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 pieces, are required 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 conjoins the studio arts with the behavioral sciences.

**Major—B.A. Art-Therapy Emphasis (31 hours), continued**

Required Courses		Hours	Required Cognates	Hours	
ART 104	Drawing I	3	EDUC 325	Phil of Christian Educ (W)	2
ART 105	Drawing II	3	EDUC 340	Fnds of Inclusive Educ	2
ART 109	Design Principles I	3	PSYC 122	General Psychology	3
ART 238	Intro to Art Therapy	3	PSYC 128	Developmental Psychology	3
ART 499	Senior Project	1	PSYC 224	Social Psychology	3
	Studio Art elec (inc 7 hrs UD)	12	PSYC 315	Abnormal Psychology	3
			PSYC 346	Intro to Personality Theories	3
			PSYC 377	Fund of Counseling (W)	3
Select six (6) hours from the following:		6	<b>Recommended Electives</b>		
ARTH 318	Art Appreciation (W)		HLED 356	Drugs and Society	2
ARTH 342	Renaissance Art History (W)		PSYC 422	Issues in Adolescence	3
ARTH 344	Ancient Art History (W)		PSYC 460	Group Processes	3
ARTH 345	Contemporary Art (W)		PSYC 479	Family Counseling	3
ARTH 349	Medieval Art History (W)		SOCI 349	Aging and Society (W)	3
<b>Recommended General Education</b>					
AREA A-4	ARTG 115				
AREA B	RELP 251, RELT 373				
AREA C	HIST 356 (W)				
AREA E-1	BIOL 103				
AREA F-2	SOCI 225				

**Major—B.F.A. Art Education K-12 (44 Hours)**

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 2.75 for all major, cognate, education course work, and an overall GPA of 2.75. For further information see the School of Education and Psychology section in the undergraduate *Catalog*.

Required Courses		Hours	Required General Education (49-55)	
ART 104,105	Drawing I, II	3,3	AREA A	ENGL 101, 102; MATH 106; 12 COMM 135 (EDUC 319 meets A-4 credit)
ART 109-110	Design Principles I, II	3,3	AREA B	RELB 3 hrs; RELT 138 and 255; 12 3 hrs UD; RELT or RELB
ART 221	Painting I	3	AREA C	As specified by the Catalog
ART 223	Principles of Color	2	AREA D	Elem Foreign Lang I & II* 0-6
ART 325	Sculpture	3	AREA E	Literature 3
ARTE 335	Elementary Methods in Art	2	AREA F	As specified by the Catalog 6
ARTE 368	Secondary Methods in Art	3	AREA G	HLED 173; EDUC 220 or PSYC 128 5
ART 499	Senior Project	1		PEAC 225 & PE Elective 2
	Studio Art Electives in one discipline	6		
Select twelve (12) hours from the following:		12	*Or two (2) years of high school foreign language receiving a C grade or higher.	
ARTH 318	Art Appreciation (W)			
ARTH 342	Renaissance Art History (W)			
ARTH 344	Ancient Art History (W)			
ARTH 345	Contemporary Art (W)			
ARTH 349	Medieval Art History (W)			

**Recommended Minor Endorsements:** Math, English, History, or Science.

**Professional Education Leading to Licensure K-12 (34 Hours)**

During the sophomore year, the student must apply to the School of Education and Psychology after completing all 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 will 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).

### Professional Education (34 Hours), continued

Required Education Courses		Hours	Required Education Courses, continued		Hours
EDUC 129	Intro to & Fnd Elem Educ		EDUC 421	Behav Management–Elem	
	OR	3		OR	2
EDUC 138	Intro to & Fnd to Sec Educ		EDUC 422	Behav Management–Sec	
EDUC 217	Psychological Found of Educ	2	EDUC 434	Rdg & Wrtg in Content Areas	2
PSYC 128	Developmental Psychology	3	EDUC 437	Curr/General Meth, Gr. 7-12	1
EDUC 319	Technology in Education	3	EDUC 464	Teaching Seminar	2
EDUC 325	Phil of Christian Educ (W)	2	EDUC 472	Enhanced Stu Tchg K-12	10
EDUC 340	Fnds of Inclusive Educ	2			
EDUC 356	Classroom Assessment	2			

### Major—B.F.A. Fine Arts (63 Hours)

The B.F.A. (Bachelor of Fine Art) is a professional degree. It is designed to facilitate the development of the artist, 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 their 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 towards 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-tradition 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 original works.

Required Courses		Hours	Required Courses, continued		Hours
ART 104,105	Drawing I, II	3,3	ARTG 115	Intro to Computer Graphics	3
ART 109-110	Design Principles I, II	3,3	ARTH 318	Art Appreciation (W)	3
ART 206	Drawing III	3	ARTH 342	Renaissance Art History (W)	3
ART 207	Drawing IV	3	ARTH 344	Ancient Art History (W)	3
ART 221-222	Painting I, II	3,3	ARTH 345	Contemporary Art (W)	3
ART 223	Color Principles	2	ARTH 349	Medieval Art History (W)	3
ART 308	Drawing V	3			
ART 310	Painting III	3	<b>Required Cognate</b>		<b>Hours</b>
ART 410	Painting IV	3		Foreign Language	6
ART 499	Senior Project	1		(Intermediate)	
ART	Electives	9			

### Character Animation and Effects Animation Admission Requirements

Admission to the Animation program is required before beginning sophomore level animation courses. Students admitted must meet the following criteria:

1. Completion of general education: ENGL 101
2. Completion of drawing sequence ART 104-105 with a "B" grade or better.
3. Completion of design sequence ART 109-110 with a "C" grade or better.

4. Completion of animation sequence AART 104, 106, and 108 with a “C” grade or better.
5. Freshman portfolio review committee recommendation.

## Freshman Portfolio Review

A faculty panel will meet, at the end of the freshman year, to review each student's entire portfolio and then determine acceptance in the Animation Programs. The student participating in the Freshman Portfolio Review is expected to display a collection of work completed during their time in the School of Visual Art and Design and, if applicable, any work completed prior to enrollment. This review is an evaluation of the student's overall development and performance in the foundation sequences. This review process considers the student's growth in knowledge and comprehension, artistic thinking, and significant skill development.

## Open Drawing Sessions

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. An opportunity for this goal is provided through Open Drawing Sessions. These sessions are organized by the School of Visual Art and Design as learning opportunities offered outside of formal classes. Any animation major taking a course, that includes an emphasis in drawing, may be required to attend these sessions. The quantity and quality of the time commitment expected by required attendance will be stated on the course's syllabus.

## Major—B.S. Animation (66 Hours)

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 visual effects animation, compositing, and rendering techniques.

## Animation Core (57 hours)

Required Core		Hours	Required Core, continued		Hours
AART 104	Principles of Animation I	3	AART 480	Self Promotion	1
AART 106	Principles of Animation II	3	ART 104	Drawing I	3
AART 108	Intro to 3D	3	ART 105	Drawing II	3
AART 212	Storyboarding & Previsual	3	ART 109	Design Principles I	3
AART 216	Character Animation I	3	ART 110	Design Principles II	3
AART 316	Collaborative Studio I	3	ART 223	Principles of Color	2
AART 318	Collaborative Studio II	3	ART 227	Digital Illustration	3
AART 322	Motion Design	3	ARTG 115	Intro to Computer Graphics	3
AART 426	Senior Studio I	3	ARTG 212	Raster Graphics	3
AART 428	Senior Studio II	3	ARTH 345	Contemporary Art (W)	3

### Character Animation Concentration (66 Hours)

Required Courses	Hours
AART 218	Animation Core 57
AART 242	Character Animation II 3
ART 107	Character Design 3
	Drawing in Motion 3

Required Cognates	Hours
ART 325	Sculpture 3
ARTF 234	Intro to Field Production OR 3
ARTF 215	Lighting 3
ARTF 320	Post Production 3
ARTI 230	Sound Design 3

### Effects Animation Concentration (66 Hours)

Required Courses	Hours
AART 244	Animation Core 57
	Solid Modeling OR 3
AART 256	Compositing 3
AART 356	Effects Animation 3

Required Cognates	Hours
ART 325	Sculpture OR 3
ARTI 230	Sound Design 3
ARTF 215	Lighting OR 3
ARTF 234	Intro to Field Production 3
ARTF 320	Post Production 3
CPTR 124	Fund of Programming 4

### Major—Technical Animation (85 Hours)

#### Technical Animation Admission Requirements

Admission to the Animation program is required before beginning sophomore level animation courses. Students admitted must meet the following criteria:

- Completion of general education: ENGL 101.
- Completion of drawing sequence ART 104-105 with a “C” grade or better.
- Completion of design sequence ART 109-110 with a “C” grade or better.
- Completion of animation sequence AART 104 and 106 with a “C” grade or better.
- Completion of AART 108 with a “B” grade or better.

Required Courses	Hours
AART 104	Principles of Animation I 3
AART 106	Principles of Animation II 3
AART 108	Intro to 3D 3
AART 212	Storyboarding & Prev 3
AART 216	Character Animation I 3
AART 316	Collaborative Studio I 3
AART 318	Collaborative Studio II 3
AART 322	Motion Design 3
AART 426	Senior Studio I 3
AART 428	Senior Studio II 3
AART 480	Self Promotion 1
ART 104	Drawing I 3
ART 105	Drawing II 3
ART 109	Design Principles I 3
ART 110	Design Principles II 3
ART 223	Principles of Color 2
ARTG 115	Intro to Computer Graphics 3
ARTG 212	Raster Graphics 3
ARTH 345	Contemporary Art (W) 3

Required Courses, continued	Hours
<i>Select four (4) of the following courses:</i>	
AART 242	Character Design 12
AART 244	Solid Modeling
AART 256	Compositing
AART 356	Effects Animation
ART 227	Digital Illustration
ART 325	Sculpture
ARTI 230	Sound Design

Required Cognates	Hours
ARTF 215	Lighting OR 3
ARTF 234	Intro to Field Production 3
ARTF 320	Post Production 3
MATH 120	Precalculus Algebra OR 3
	High School Precalculus
MATH 181	Calculus I 3
MATH 200	Elementary Linear Algebra 2

### Technical Animation Required Minor— Computing (18 Hours)

Required Courses	Hours
CPTR 103	Principles of Computing 3
CPTR 124	Fund of Programming 4
CPTR 215	Fund of Software Design 4
CPTR 314	Data Struc, Algor & Know Sys 4

Required Courses, continued	Hours
<i>Select one (1) of the following courses:</i>	
CPTR 327	User Interface Design 3
CPTR 425	Computer Graphics
CPTR 418	Artificial Intelligence

### Major—B.S. Film Production (69 Hours)

The major in Film Production is for those 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 every aspect of the narrative filmmaking process. 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 towards 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		Hours	Required Courses, continued		Hours
AART 212	Storyboarding & Previsual	3	ARTG 115	Intro to Computer Graphics	3
AART 256	Compositing		ARTG 212	Raster Graphics	3
	OR	3	ARTH 318	Art Appreciation (W)	
AART 322	Motion Design			OR	3
ART 104	Drawing I	3	ARTH 345	Contemporary Art (W)	
ART 109	Design Principles I	3	ARTI 230	Sound Design	3
ART 110	Design Principles II	3			
ART 223	Principles of Color	2	<b>Required Cognates</b>		<b>Hours</b>
ARTF 112	Intro to Film	3	BRDC 202	Digital Audio Production	3
ARTF 114	Film Business & Mgmt	3	COMM 326	Film Evaluation (W)	3
ARTF 215	Lighting	3	PHTO 125	Intro to Photography	3
ARTF 226	Screenwriting I	3	<b>Recommended General Education</b>		
ARTF 234	Intro to Field Production	3	AREA A	CPT 100; ENGL 101,102; 9-10 (MATH 100 and above)	
ARTF 235	Cinematography	3	AREA B	RELB 125; RELT 225; RELT 368(W); Elective	12
ARTF 320	Post Production	3	AREA C	HIST 174, 359; PLSC 472(W)	9
ARTF 328	Screenwriting II	3	AREA D	Completed in the Major	
ARTF 353	Documentary Filmmaking	3	AREA E	BIOL 421 or PHYS 317; ERSC 105	6
ARTF 370	Senior Project I	2	AREA F	SOCI 150; HLED 173	5
ARTF 422	Directing	3	AREA G	G3, in major; PEAC 225; PEAC Elective (2 hrs)	2
ARTF 445	Self Promotion	1			
ARTF 470	Senior Project II	2			
ARTF 471	Senior Project III	2			
ARTF 492	Film Production Internship	3			

### Major—B.S. Graphic Design (65 Hours)

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, to 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.

### Graphic Design Core (59 Hours)

Required Core		Hours
ART 104	Drawing I	3
ART 109	Design Principles I	3
ART 110	Design Principles II	3
ART 223	Principles of Color	2
ARTH 345	Contemporary Art (W)	3
ARTG 115	Intro to Computer Graphics	3
ARTG 121	Typography I	3
ARTG 138	Design Studio I	3
ARTG 210	Vector Graphics	3
ARTG 212	Raster Graphics	3
ARTG 226	Digital Imaging	3

Required Core, continued		Hours
ARTG 238	Design Studio II	3
ARTG 324	Editorial Design	3
ARTG 332	Advertising Design	3
ARTG 335	Three-dimen Graphic Design	3
ARTG 338	Design Studio III	3
ARTG 420	Corporate Identity	3
ARTG 432	Senior Design Studio	3
ARTG 491	Graphic Design Practicum	3
ARTI 440	Digital Portfolio	3

### Graphic Design Print Concentration (65 Hours)

Required Courses		Hours
ART 227	Graphic Design Core Digital Illustration OR	59
ART 331	Illustration Methods OR	3
ARTI 115	Intro to Interactive Media	
ARTG 122	Typography II	3

Required Print Cognates		Hours
AART 322	Motion Design	3
TECH 244	Graphic Production	3

### Graphic Design Web Concentration (65 Hours)

Required Courses		Hours
ARTI 115	Graphic Design Core Intro to Interactive Media	59 3
ARTI 223	Interactive Media I	3

Required Web Cognates		Hours
AART 322	Motion Design	3
CPTR 124	Fund of Programming	4

Recommended General Education		Hours
AREA C	HIST 359 (W), PLSC 472 (W)	6
AREA D	COMM 326 (W)	3
AREA E	BIOL 424 (W), ERSC 105	6
AREA F	BUAD 128, HLED 173	5
AREA G	BUAD 126, PHTO 125	6
	(PEAC 225 and a PEAC course is required)	

### Major—B.S. Interactive Media (65 Hours)

The Interactive Media program at the School of Visual Art and Design prepares students to design and create interactive experiences. Entering students begin with a thorough introduction to both the principles of design and the digital tools used by industry professionals. Building on this foundation, subsequent courses equip students to create websites, serious games, dynamic sound synthesis, multimedia CD ROMs, 2D and 3D simulations, immersive environments and virtual communications.

Required Courses		Hours
ART 104	Drawing I	3
ART 109	Design Principles I	3
ART 110	Design Principles II	3
ART 223	Principles of Color	2
ARTG 115	Intro to Computer Graphics	3
ARTG 121	Typography I	3
ARTG 122	Typography II	3
ARTG 210	Vector Graphics	3
ARTG 212	Raster Graphics	3
ARTG 226	Digital Imaging	3
ARTH 345	Contemporary Art (W)	3
ARTI 115	Intro to Interactive Media	3
ARTI 223	Interactive Media I	3

Required Courses, continued		Hours
ARTI 230	Sound Design	3
ARTI 323	Interactive Media II	3
ARTI 329	Multimedia	3
ARTI 440	Digital Portfolio	3
ARTI 480	Self Promotion	1
ARTI 491	Interactive Design Prac	1-3

Select nine (9) hours from the following:		Hours
ARTI 423	Interactive Media III	
ARTI 427	Interactive Video and Sound	
ARTI 432	3D Environments	
ARTI 437	New Media Applications	
ARTI 265/465	Topics in Interactive Media	

**Major—B.S. Interactive Media (65 Hours), continued**

<b>Required Cognates</b>		<b>Hours</b>	<b>Recommended Electives</b>		<b>Hours</b>
AART 104	Principles of Animation	3	ART 227	Digital Illustration	3
AART 108	Introduction to 3D	3	CPTR 215	Fund of Software Design	4
AART 322	Motion Design	3	JOUR 105	Writing for the Media	3
ARTF 320	Post Production	3	MATH 120	Precalculus Algebra	3
ARTI 124	Programming for Artists	3	MATH 121	Precalculus Trigonometry	2
			SOCI 150	Cultural Anthropology	3

**Major—A.S. Graphic Design (32 Hours)**

<b>Required Courses</b>		<b>Hours</b>	<b>Required Cognate</b>		<b>Hours</b>
ART 104	Drawing I	3	TECH 245	Graphic Production	3
ART 109-110	Design Principles I, II	3,3	<b>Recommended General Education</b>		
ART 223	Color Principles	2	AREA D	COMM 326 (W)	3
ARTG 115	Intro to Computer Graphics	3	AREA F	BUAD 128	3
ARTG 121	Typography I	3			
ARTG 210	Vector Graphics	3			
ARTG 212	Raster Graphics	3			
ARTG 338	Design Studio III	3			
ARTG	Elective	3			
ARTH 345	Contemporary Art (W)	3			

**Minor—Art (18 Hours)**

<b>Required Courses</b>		<b>Hours</b>	<b>Required Courses, continued</b>		<b>Hours</b>
ART 104-105	Drawing I, II	6	<i>Select three (3) hours from the following:</i>		
ART 109	Design Principles I	3	ARTH 318	Art Appreciation (W)	3
	Electives	3	ARTH 342	Renaissance Art History (W)	
	Upper Division Electives	3	ARTH 344	Ancient Art History (W)	
			ARTH 345	Contemporary Art (W)	
			ARTH 349	Medieval Art History (W)	

**Minor—Art Education (24 Hours)**

*\*For Education majors only*

<b>Required Courses</b>		<b>Hours</b>	<b>Required Courses, continued</b>		<b>Hours</b>
ART 104-105	Drawing I, II	6	<i>Select three (3) hours from the following:</i>		
ART 109	Design Principles I	3	ARTH 318	Art Appreciation (W)	3
ART 221	Painting I	3	ARTH 342	Renaissance Art History (W)	
ART 325	Sculpture	3	ARTH 344	Ancient Art History (W)	
ART 499	Senior Project	1	ARTH 345	Contemporary Art (W)	
ARTE 335	Elementary Methods in Art	2	ARTH 349	Medieval Art History (W)	
ARTE 368	Secondary Methods in Art	3			

*\*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.*

**Minor—Art History (18 Hours)**

<b>Required Courses</b>		<b>Hours</b>	<b>Required Courses, continued</b>		<b>Hours</b>
ARTH 218	Art Appreciation	3	ARTH 345	Contemporary Art History (W)	3
ARTH 342	Renaissance Art History (W)	3	ARTH 349	Medieval Art History (W)	3
ARTH 344	Ancient Art History (W)	3	ARTH 492	Art History Internship	3

**Minor—Graphic Design (21 Hours)**

<b>Required Courses</b>		<b>Hours</b>	<b>Required Courses, continued</b>		<b>Hours</b>
ART 104	Drawing I	3	ARTG 210	Vector Graphics	3
ART 109	Design Principles I	3	ARTG 212	Raster Graphics	3
ARTG 115	Intro to Computer Graphics	3	ARTG 338	Design Studio III	3
			ARTH 345	Contemporary Art (W)	3



## INTERDEPARTMENTAL PROGRAMS

### Bachelor of Science in Medical Science

**Advisor:** 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 Clinical Laboratory Science program, except BIOL 330 and 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 page 85)
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.

Required Courses		Hours	Required Cognates		Hours
BIOL 161-162	General Biology	10	PHYS 211, 213	General Physics	4
CHEM 151-152	General Chemistry	8	MATH 181	Calculus I*	3
CHEM 311-312	Organic Chemistry	8		OR	
	UD Biology/Chemistry Elect	12	MATH 215	Statistics	

\*Waived if equivalent math was taken in high school with minimum grade of B.

The curricula above 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.

### General Studies

**Advisement 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.

## Associate of Arts Degree in General Studies

**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 B, 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	Semester		Year 2	Semester	
	1 <sup>st</sup>	2 <sup>nd</sup>		1 <sup>st</sup>	2 <sup>nd</sup>
Computer Concepts		1	COMM 135	Intro to Public Spkg	3
ENGL 101-102	College Composition	3		Computer Skills	2
NOND 101	Southern Connections	1		Area A, Math	0-3
PEAC 225	Fitness for Life	1		Area B, Religion	3
	Area B, Religion	3		Area C, Govt/Econ	2
	Area C, History	3	3	Area D, Literature	3
	Area E, Nat Science	3		Area E, Natural Sci	3
	Area F, Beh Science		3	Area F, Beh Science	3
	Area G-1		1	Area G, PEAC Skill	1
	Electives	2	5	Foreign Language	3
		16	16	Electives	1
					16

See pages 28-29 and 32-36 for General Degree and General Education requirements. Note especially requirements for make-up of any admissions deficiencies.

## Associate of Science Degree in General Studies

**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 B, 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	Semester		Year 2	Semester	
	1 <sup>st</sup>	2 <sup>nd</sup>		1 <sup>st</sup>	2 <sup>nd</sup>
CPT 100	Computer Concepts	1	COMM 135	Intro to Public Spkg	3
ENGL 101-102	College Composition	3		Computer Skills	2
NOND 101	Southern Connections	1		Area A, Math	0-3
PEAC 225	Fitness for Life	1		Area B, Religion	3
	Area B, Religion	3		Area C, Govt/Econ	2
	Area C, History	3	3	Area D, Literature	3
	Area E, Nat Science	3		Area E, Natural Sci	3
	Area F, Beh Science		3	Area F, Beh Science	3
	Area G-1		1	Area G, PEAC Skill	1
	Electives	2	5	Electives	7
		16	16		16

See pages 28-29 and 32-36 for General Degree and General Education requirements. Note especially requirements for make-up of any admissions deficiencies.

## NON-DEGREE PREPROFESSIONAL PROGRAMS

Preprofessional and pretechnical curricula are offered in a wide variety of fields. Below are listed the curricula most frequently chosen. If other preprofessional programs are desired, faculty advisors 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)

**Advisor:** 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

**Advisor:** Keith Snyder

Pre-dental training in college/university requires a minimum of three years of study; however, a preference is given to those who have completed a fourth year, earning a bachelor's degree. Students may major in the field of their interest. 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 year of basic science courses in dental school.

Application to dental school should be made one year previous to the one for which admission is desired. Successful applicants should have a minimum GPA of 3.00 in both science and non-science courses as well as satisfactory performance on the Dental Admissions Test. Information regarding the Dental Admission Testing Program may be obtained from the American Dental Association, 211 East Chicago Avenue, Chicago, IL 69611 or on the web (<http://ada.org/prof/ed/testing/dat.as>).

The following courses must be included to meet the minimum requirements for admission to Loma Linda University School of Dentistry:

BIOL 161-162 .....	10 hours
CHEM 151-152, 311-312, 351 .....	19 hours
ENGL 101-102 .....	6 hours
MATH 120*, 121* .....	5 hours
PHYS 211-212, 213-214 .....	8 hours

*\*Waived if equivalent math was taken in high school with minimum grade of B.*

**Strongly recommended courses:** Anatomy (BIOL 416), Animal Physiology (BIOL 420)

**Recommended courses:** Business classes such as Accounting/Management, and a hands-on class such as Ceramics/Sculpture.

## Law

### Advisor:

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. This 18 hour minor consists of:

1. ECON 224, Principles of Economics ..... 3 hours
2. PLSC 254, American Government ..... 3 hours
3. PLSC 471, Classics of Western Thought I OR  
PLSC 472, Classics of Western Thought II..... 3 hours
4. ENGL 313, Expository Writing ..... 3 hours

Plus six hours of electives selected from the following courses:

5. ACCT 221, Principles of Accounting
6. ECON 225, Principles of Economics
7. BUAD 358, Ethical, Social, and Legal Environment of Business
8. BUAD 339, Business Law
9. HIST/PLSC 357, Modern America
10. HIST 374, History of England
11. HMNT 210, Introduction to Philosophy
12. JOUR 427, Mass Media Law and Ethics
13. COOP 265/465, Cooperative Education (3 Hours)

Such coops would include work with one of the following: a lawyer, a legal clinic, a public defender's office, a state or U.S. attorney's office.

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 advisor.

## Medicine

**Advisors:** Joyce Azevedo, Loren Barnhurst, Ann Foster, Rick Norskov, Rhonda Scott, Keith Snyder, Lee Spencer, Neville Trimm

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. 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 mathematics are recommended. Please check the specific requirements for individual medical schools.

BIOL 161-162 .....	10 hours
CHEM 151-152, 311-312.....	16 hours
ENGL 101-102.....	6 hours
MATH 120*, 121* .....	3 hours
PHYS 211-212, 213-214.....	8 hours

\*Waived if equivalent math was taken in high school with minimum grade of B.

**Strongly recommended courses:** Biochemistry (CHEM 351), Cell and Molecular Biology (BIOL 412), Animal Physiology (BIOL 420), Developmental Biology (BIOL 313) Animal Histology (BIOL 417), Human Anatomy (BIOL 416), Statistics (MATH 215).

**NOTE:** It is recommended that one of the first three courses be taken before taking the MCAT.

**Recommended courses:** General Microbiology (BIOL 330), Immunology (BIOL 340), Calculus I (MATH 181), Business courses such as Accounting/Management.

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 above 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.

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>).

After receiving the applications from AMCAS, the admissions office of the medical school reviews the candidates and determines whether or not supplementary information is needed.

Medical schools usually require a letter of recommendation from the pre-professional recommendation committee of the applicant's undergraduate college. Senior pre-medical students are asked to provide the names and addresses of all medical schools to which they are applying to the Vice President for Academic Administration's office at Southern by the first week of September.

Following a careful evaluation of the supplementary application and letters of recommendation submitted to the admissions office, selected applicants may be invited for a personal interview by the medical school.

## Optometry

**Advisor:** 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.

Following is a list of preoptometry courses required by most schools:

BIOL 161-162, 330, 416, 418.....	20 hours
CHEM 151-152, 311 .....	12 hours
ENGL 101-102 .....	6 hours
MATH 120, 121, 181.....	8 hours
PHYS 211-212, 213-214.....	8 hours
PSYC 122 .....	3 hours

Direct individual inquiries are welcomed by the American Optometric Association (<http://www.aoa.org>).

## Osteopathic Medicine

**Advisors:** Joyce Azevedo, Ann Foster, Rick Norskov, Keith Snyder, Lee Spencer, Neville Trimm

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. Students apply to schools of osteopathic medicine through the American Association of Colleges of Osteopathic Medicine Application Service (AACOMAS) (<http://www.aacomas.aacom.org>).

For a reasonable chance of acceptance, a minimum grade point average of 3.00 should be maintained in both science and non-science subjects.

## Pharmacy

**Advisor:** Bruce Schilling

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>. All schools place a strong emphasis on chemistry, biology, physics, and mathematics.

Minimum admission requirements for the Loma Linda University School of Pharmacy include the following 78 semester credit hours:

BIOL 101, 161-162, 330.....	18 hours
CHEM 151-152, 311-312, 351.....	19 hours
COMM 135.....	3 hours
ECON 224 or 225; PSYC 122.....	6 hours
ENGL 101-102.....	6 hours
MATH 181-182.....	7 hours
PHYS 211-212, 213-214.....	8 hours
Humanities/Fine Arts.....	12 hours
Social/Behavioral Studies.....	6 hours

One semester of an introductory computer class must also be included or the student must demonstrate computer competency. Loma Linda indicates that preference will be given to students who have completed a baccalaureate degree in chemistry, biology, physics, or a related scientific field. BIOL 340, 412, and 417 are highly recommended.

University of Tennessee Memphis has increased its prepharmacy requirements to a minimum of 90 semester credit hours. Minimum admission requirements to the University of Tennessee College of Pharmacy at Memphis are:

BIOL 161-162; 101-102 or 416 and 418, 225 or 330, 340.....	25 hours
CHEM 151-152, 311-312, 351-352, 343*.....	21 hours
COMM 135.....	3 hours
ENGL 101-102.....	6 hours
PHYS 211, 213.....	4 hours
MATH 181, 215.....	6 hours
Humanities.....	6 hours
Social Sciences.....	6 hours
General Electives.....	14 hours

\*recommended

Pharmacy is an excellent, lucrative career with a current shortage of qualified pharmacists. However, this has led to much more competition for the available positions in pharmacy schools. The average GPA for accepted students is approaching 3.5. In addition, a satisfactory score must be achieved on the National Pharmacy Admission Test.

## Podiatric Medicine

**Advisor:** 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

**Advisor:** Renita Klischies

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.

SDA 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 advisor. 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 pre-requisite course work required.

## Veterinary Medicine

**Advisor:** Neville Trimm

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 and personal qualifications for admission. Professional training involves four years of veterinary school beyond college.

Minimum admission requirements to the University of Tennessee College of Veterinary Medicine in Knoxville are:

BIOL 161-162, 316, 412 .....	18 hours
CHEM 151-152, 311-312, 351 .....	19 hours
ENGL 101-102 .....	6 hours
PHYS 211-212, 213-214 .....	8 hours

Additional requirements include:

Humanities and Social Sciences .....	18 hours
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Admission requirements will vary among veterinary schools; therefore, it is recommended that the pre-veterinary student work closely with his/her advisor 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.avmc.org>.

# 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: 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: 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: AART 104.

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**

Prerequisites: AART 106, 108.

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: AART 216.

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 242. Character Design 3 hours**

Prerequisites: AART 106, 108; ART 227.

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: AART 108.

This course deals with product modeling which describes most mechanical or generally non-deformable 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 256. Compositing 3 hours**

Prerequisite: ARTG 212.

Node-based compositing for live action and computer graphic film-making enhances source material with time based image manipulation. 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 265. Topics in Animation 1-3 hours**

This course is designed to be an access point to a broad variety of subjects in animation. May be repeated with permission. Lab fee 12 will be assessed for this course.

**AART 292. Internship in Animation 1-3 hours**

Prerequisite: 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 advisor 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 advisor and the student. May be repeated.

**AART 316. Collaborative Studio I 3 hours**

Prerequisite: AART 216.

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.

**AART 318. Collaborative Studio II 3 hours**

Prerequisite: AART 316.

In this course students continue working together to finish the animation production started in Animation Collaborative Studio I to continue producing portfolio quality work in line with their career goals. Lab fee 12 will be assessed for this course.

**AART 322. Motion Design 3 hours**

Prerequisite: ARTG 212.

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**

Prerequisites: AART 108; CPTR 124.

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 426. Senior Studio I 3 hours**

Prerequisite: 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 428 Senior Studio II 3 hours**

Prerequisite: AART 426.

In this course final year students will finish any projects needed to complete their portfolio. Class time features structured lab times, 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.

**AART 480. Self Promotion 1 hour**

Prerequisite: Senior status.

Students enrolled in this course will be trained in aspects related to presenting themselves as professionals applicable to various career settings like jobs and internships or graduate school. Skills in art preparation, job hunting, and the importance of developing an artistic statement will also be addressed. Lab fee 5 will be assessed for this course.

**AART 492. Internship in Animation 1-3 hours**

Prerequisite: Acceptance by a professional studio.

See AART 292 for course description.

**AART 495. Directed Study 1-3 hours**

See AART 295 for course description.

**Accounting****ACCT 103. College Accounting (G-2) 3 hours**

This course covers the fundamental accounting processes dealing with the bookkeeping and accounting functions for the small business, professional offices, merchandising firms and service organizations. This course does not apply for credit to a BBA or BS business major. (Fall)

**ACCT 221. Principles of Accounting I (G-2) 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 (G-2) 3 hours**

Prerequisite: 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: 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: Approval of the Dean of the School

A directed study involves individualized research into a selected topic chosen by the faculty advisor and the student.

**ACCT 311. Intermediate Accounting I 4 hours**

Prerequisite: ACCT 221.

An in-depth course in financial accounting. Topics include the accounting conceptual framework, the hierarchy of GAAP, accounting for cash, receivables, inventories, plant assets, intangibles, and current and long-term liabilities and accounting for investments. (Fall)

**ACCT 312. Intermediate Accounting II 4 hours**

Prerequisite: 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. (Winter)

**ACCT 316. Governmental and Fund Accounting 3 hours**

Prerequisite: ACCT 222.

Accounting theory and practice are applied to governmental units and nonprofit organizations, 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**

Prerequisites: BUAD 105; ACCT 222.

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 323. Cost Accounting 2 hours**

Prerequisite: 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, actual, standard, and direct cost methods. Process cost is emphasized. Quantitative techniques are covered, and may include decision-making under uncertainty, inventory control, cost behavior and regression analysis, and variance investigation. (Fall)

**ACCT 326. Accounting Software Tools 2 hours**

Prerequisite: ACCT 222.

This course introduces students to the utilization of computerized accounting software for maintaining a business accounting information, including controls in a computerized accounting environment. Students will be introduced to low, medium, and high-end software programs. (Fall)

**ACCT 450. Advanced Accounting 3 hours**

Prerequisite: ACCT 312.

This course is cross-listed with ACCT 550 in the MBA and MFS programs. A student may receive credit for this course from only one program.

This course is an in-depth study of selected accounting topics such as consolidated financial statements, partnerships, business firms in financial difficulty, estates and trusts, foreign exchange, and segment reporting. (Winter)

**ACCT 452. Auditing 3 hours**

Prerequisite: 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: 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: 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: Permission of the instructor.

See ACCT 265 for course description.

**ACCT 491. Accounting Practicum 1-3 hours**

Prerequisites: 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**

Prerequisites: 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: Approval of the Dean of the School

See ACCT 295 for course description.

**ACCT 497. Accounting Research 3 hours**

Prerequisites: ACCT 450; BUAD 221.

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.

**Studio Art/Art History****ART 101. Introduction to Drawing (G-1) 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 (G-1) 3 hours**

The objective of this class is to introduce the beginning art student to the elements and principles of art focusing on drawing using a ten value scale, one, two, and three point perspective, and exploring character of line using various pencils, charcoal, conte crayon, and ink. The majority of the assignments are carried on in the drawing studio using set-ups set by the instructor. In addition to drawing done in class, daily sketching and finished drawings done outside of class are required. Maintenance of a journal-sketch book documenting the creative process is required with a minimum of one sketch per school day. Lab fee 4 will be assessed for this course.

**ART 105. Drawing II (G-1) 3 hours**

Prerequisite: ART 104.

This course emphasizes three point and multiple perspective, modeling, and composition. During the first half of the course the students draw in the studio setting up their own lighting and still lifes. Texture, composition, and reflection is focused on during the second half of the course by drawing outdoors from the landscape. In addition to drawing in class, daily sketching, and finished drawings done outside of class are required. Maintenance of a journal-sketch book as in Drawing I is required. Lab fee 4 will be assessed for this course.

**ART 107. Drawing in Motion 3 hours**

Prerequisite: 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. Design Principles I (G-1) 3 hours**

The most fundamental course in design. The student learns how principles of design and elements are used in composition. The main focus of the course is to create an individual and separate understanding of elements and then work collectively with principles and elements for superior design. Lab fee 4 will be assessed for this course.

**ART 110. Design Principles II (G-1) 3 hours**

Prerequisite: ART 109.

A more advanced course in design that focuses on three dimensional design using the cube as a basic structure. The basic elements are added or subtracted to the cube to gain a more complete example of dimensional space. Lab fee 4 will be assessed for this course.

**ART 206. Drawing III - Anatomy 3 hours**

Prerequisites: ART 104, 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 207. Drawing IV 3 hours**  
Prerequisites: ART 104, 105, 206.  
This course is devoted to the advanced study of multiple point perspective in the urban setting and to drawing the landscape as well. Weekly field trips are taken to draw on location. Lab fee 4 will be assessed for this course.
- ART 221. Painting I (G-1) 3 hours**  
Prerequisites: ART 104, 105, 109, 223 or permission of instructor.  
A course designed to give the student a basic understanding of the material paint. The student is exposed to portraiture, still life, landscape, and the objective forms of painting with an emphasis on basic composition. Lab fee 4 will be assessed for this course.
- ART 222. Painting II (G-1) 3 hours**  
Prerequisite: 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 223. Principles of Color (G-1) 2 hours**  
A basic course in the study of the phenomenon of color as it applies to the realm of the visual arts with emphasis of the relationships and interactions of colors. Lab fee 4 will be assessed for this course.
- ART 227. Digital Illustration 3 hours**  
Prerequisites: ART 105, 223 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.
- ART 228. Watercolor I 3 hours**  
Prerequisites: ART 104, 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 (G-1) 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. May be repeated for credit. Lab fee 6 will be assessed for this course.



**ART 238. Introduction to Art Therapy 3 hours**

Prerequisites: ART 105, 109; PSYC 122, 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 265. Topics in Art 1-3 hours**

Selected areas in art such as watercolor, printmaking, concept drawing, stage set design, advanced figure drawing, cartooning, and other related topics are chosen each semester as the topic of focus. Lab fee 4 will be assessed for this course.

**ART 295. Directed Study 1-3 hours**

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. May be repeated for credit up to four times. Lab fee 4 will be assessed for this course.

**ART 300. Printmaking (G-1) 3 hours**

Prerequisite: 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. Course will be taught in odd years. Lab fee 6 will be assessed for this course.

**ART 308. Drawing V 3 hours**

Prerequisites: ART 104, 105, 206, 207.

An advanced course for the drawing or painting focused student where a personal style of drawing and a body of work focused on content are developed. Lab fee 4 will be assessed for this course.

**ART 310. Painting III (G-1) 3 hours**

Prerequisite: 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 3 hours**

Prerequisite: ART 104 or permission of instructor.

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: 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 3 hours**

Prerequisite: 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 410. Painting IV 3 hours**

Prerequisite: 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 465. Topics in Art 1-3 hours**

See ART 265 for course description.

**ART 495. Directed Study 1-3 hours**

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 4 will be assessed for this course.

**ART 499. Senior Project 1 hour**

Major projects in area of interest for seniors and preparation of permanent portfolio of college art work. Lab fee 4 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 advisor and the student. May be repeated.

**ARTE 335. Elementary Methods in Art 2 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**

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 112. Intro to Film 3 hours**

This course provides an overview of the entire film production model including development, pre-production, production, post-production, and distribution. Special attention will be given to exploring the various jobs required to produce a film, and how to identify key elements of a good story. This is a lecture course.

**ARTF 114. Film Business and Management 3 hours**

Prerequisite: ARTF 112.

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.

**ARTF 215. Lighting 3 hours**

Prerequisite: ART 104 or permission of instructor.

Students learn the fundamentals of how to use light to create moods and effects. Lab fee 8 will be assessed for this course. This is a lecture/lab course.

**ARTF 226. Screenwriting I 3 hours**

Prerequisites: ENGL 101, 102.

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.

**ARTF 234. Intro to Field Production 3 hours**

Prerequisite or Co-requisite: ARTF 215 or permission of instructor.

This course is designed to introduce students to the principles and tools of narrative filmmaking, including the use of film and digital video cameras. Lab fee 8 will be assessed for this course. This is a lecture/lab course.

**ARTF 235. Cinematography 3 hours**

Prerequisite: ARTF 234.

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 370, 470, or 471 to produce complete short films. Lab fee 16 will be assessed for this course. This is a studio 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. Lab fee 12 will be assessed for this course. This is a studio 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 advisor and the student. May be repeated.

**ARTF 320. Post Production 3 hours**

Prerequisite: ARTG 212. Co-requisite: ARTF 235.

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. Lab fee 12 will be assessed for this course. This is a lecture/lab course.

**ARTF 328. Screenwriting II 3 hours**

Prerequisite: ARTF 226.

Students write several short screenplays, as well as one feature length screenplay intended for portfolio use. This is a lecture/lab course.

**ARTF 353. Documentary Filmmaking 3 hours**

Prerequisite or Co-requisite: ARTF 320.

Students produce a short documentary film and analyze documentary films paying special attention to the kinds of challenges present for the documentary film maker. Lab fee 12 will be assessed for this course. This is a lecture/studio course.

**ARTF 370. Senior Project I 2 hours**

Prerequisite or Co-requisites: ARTF 328, 422.

This is the first class in a sequence in which students will develop, direct, and post produce a major project that should represent the skills that they have hone during their academic career. Key components should include artistic storytelling, technical proficiency, and content that the compatible with the mission of Southern Adventist University. The first phase should be taken during the second semester of the Junior year, and will represent the development phase of the project. This should include development of the screenplay, budget, and funding.

**ARTF 422. Directing 3 hours**

Prerequisite: 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. Lab fee 12 will be assessed for this course. This is a lecture/studio course.

**ARTF 445. Self Promotion 1 hour**

Co-requisite: ARTF 471.

Film production majors study the industry as a whole in conjunction with preparing portfolios suitable for job placement in the area of their choice. Lab fee 12 will be assessed for this course.

**ARTF 465. Topics in Film Production 1-3 hours**

See ARTF 265 for course description.

**ARTF 470. Senior Project II 2 hours**

Prerequisite: ARTF 370.

In this sequence students will develop, direct, and post produce 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 such as casting, location scouting, hiring crew, and production. Lab fee 12 will be assessed for this course.

**ARTF 471. Senior Project III 2 hours**

Prerequisite: ARTF 470.

In this sequence students will develop, direct, and post produce a major project that should represent the skills that they have honed during their academic career. This final phase, taken during the second semester of the senior year, will include editing, focus group screenings, re-shoots, sound design, scoring, visual effects, color correction and mastering, and will conclude with public exhibition of the work. Lab fee 12 will be assessed for this course.

**ARTF 492. Film Production Internship. 3 hours**

Prerequisite: Completion of at least half of the hours required for a major in film production.

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.

**Computer Graphics****ARTG 115. Introduction to Computer Graphics (A-4) 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 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 5 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 advisor and the student. May be repeated.
- ARTG 324. Editorial Design 3 hours**  
Prerequisites: ARTG 122, 226, and 238.  
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: 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: 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 13 will be assessed for this course.
- ARTG 338. Design Studio III 3 hours**  
Prerequisite: ART 324 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 3 hours**  
Prerequisite: 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: 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.

**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.

**Art History****ARTH 218. Art Appreciation (D-3) (W) 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 17 will be assessed for this course.

**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 advisor and the student. May be repeated.

**ARTH 318. Art Appreciation (D-3) (W) 3 hours**

See ARTH 218 for course description.

**ARTH 342. Renaissance Art History (D-3) (W) 3 hours**

A study of arts of western civilization during Renaissance times with an emphasis on the pivotal figures in Art History.

**ARTH 344. Ancient Art History (D-3) (W) 3 hours**

A study of the arts of western civilization from antiquity to the mid-600's A.D. with an emphasis on pivotal figures in art history.

**ARTH 345. Contemporary Art (D-3) (W) 3 hours**

Nineteenth- and twentieth-century developments in European and American arts. (Fall)

**ARTH 349. Medieval Art History (D-3) (W) 3 hours**

A study of the arts of western civilization during Medieval times with an emphasis on the pivotal figures in Art History.

**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 115. Introduction to Interactive Media 3 hours**

This course introduces the student to the use of the web as a medium for interactive illustration, motion, communication, dynamic publishing, and e-learning. Lab fee 12 will be assessed for this course. Three hour lecture.

**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.

**ARTI 223. Interactive Media I 3 hours**

Prerequisites: ARTG 115; ARTI 115. Pre- or Co-requisite: CPTR 124.

Students will create aesthetically pleasing websites using XHTML, CSS, and JavaScript with attention to accessibility, site management, web administration, graphics optimization, internet history, and the World Wide Web architecture. 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. Lab fee 12 will be assessed for this course. Three hour lecture.

**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. The course may be repeated with permission. Lab fee 12 will be assessed for this course.

**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 advisor and the student. May be repeated.

**ARTI 323. Interactive Media II 3 hours**

Prerequisites: ARTG 210; ARTI 230.

Web animations, illustrations, and e-learning will be developed in this studio class. Lab fee 12 will be assessed for this course. Three hour lecture and one hour studio course.

**ARTI 329. Multimedia 3 hours**

Prerequisites: 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 423. Interactive Media III 4 hours**

Prerequisite: ARTI 223; CPTR 124.

This studio course emphasizes the effective use of visual design with websites that store and retrieve information through the use of server-side scripting and databases. Lab fee 12 will be assessed for this course.

**ARTI 427. Interactive Video and Sound 3 hours**

Prerequisite: ARTI 230.

Students will explore and express their own audio-visual experiences through interactive video and sound synthesis programming. Lab fee 12 will be assessed for this course. Five hour studio course.

**ARTI 432. 3D Environments 3 hours**

Prerequisite: 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. Lab fee 12 will be assessed for this course. Five hour studio course.

**ARTI 437. New Media Applications 3 hours**

Prerequisite: ARTI 323.

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. Lab fee 9 will be assessed for this course. Three hours of lecture.



**ARTI 440. Digital Portfolio 3 hours**

Prerequisite: 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.

**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 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 (D-1) 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 (D-1) 3 hours**

Prerequisite: 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 3 hours**

Prerequisite: 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 3 hours**

Prerequisite: 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 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.

**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: ASL 102.

This course would focus on the unique grammatical components of American Sign Language showing how language works 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 "educated vantage point."

**ASL 465. Topics in American Sign Language 1-3 hours**  
See ASL 265 for course description.

## Biology

**BIOL 101-102. Anatomy and Physiology (E-1) 4,4 hours**  
Prerequisite: Minimum composite ACT of 18 or permission of the department.

A study of the fundamentals of human anatomy and physiology. The first semester covers basic cytology, histology, the musculoskeletal, integumentary, nervous, and endocrine systems. The remainder of the body systems are studied the second semester. Three lectures and one three-hour laboratory period each week. Does not apply on a major or minor in Biology. Lab fee 5 will be charged for each semester.

**BIOL 103. Principles of Biology (E-1) 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. Two lectures and one three-hour laboratory each week. Does not apply on a major or minor in Biology. Lab fee 4 will be assessed for this course.

**BIOL 161-162. General Biology (E-1) 5,5 hours**  
Prerequisite: 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 4 will be charged for each semester.

**BIOL 225. Basic Microbiology (E-1) 4 hours**  
Prerequisite: 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. Three lectures and two one and one-half hour laboratory periods each week. Does not apply on a major or minor in Biology. Lab fee 5 will be charged for this course.

**BIOL 250. Introduction to Tropical Marine Biology (E-1) 3 hours**

A study of the major invertebrates and fish of the tropical coral reef and seashores. Emphasis is placed on the life habits of the organisms and their ecological niches. Habitats studied are coral reefs, rocky shores, sandy beaches, thalassia beds and mangrove swamps. Involves two weeks of on-campus class work and a one to two week field laboratory experience on tropical coral reefs. Additional fee required. (Summer)

**BIOL 252. Tropical Biology (E-1) 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. Additional fee required. (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 284. Introduction to Biological Research 1 hour**

Prerequisite: BIOL 161.

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. (Fall)

**BIOL 286. Biology Seminar 1 hour**

Prerequisite: Biology major or minor with senior standing.

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.

**BIOL 295. Directed Study 1-3 hours**

Prerequisites: BIOL 161-162.

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**

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 311. Genetics 4 hours**

Prerequisite: BIOL 161 or 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**

Prerequisites: BIOL 161-162.

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**

Prerequisites: BIOL 161-162.

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 (E-1) 3 hours**

A systematic study of bird life with special emphasis on external features, taxonomy, nesting and feeding habits, flight and migratory patterns. Two lectures and one laboratory period each week. An extended field trip, which applies toward laboratory credit, is planned. Lab fee 8 will be assessed for this course.

**BIOL 315. Parasitology 3 hours**

Prerequisites: BIOL 161-162.

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 3 hours**

Prerequisites: BIOL 161-162.

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**

Prerequisites: BIOL 161-162.

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, usually in Algonquin Provincial Park, Ontario, Canada. Emphasis will be placed on identification of mammals, birds, insects and plants and their ecological interactions. Five days of class lectures, approximately nine days of field trip, and post-trip writing assignments will be required. Lab fee 16 will be assessed for this course. (Summer, odd years).

**BIOL 330. General Microbiology 4 hours**

Prerequisites: BIOL 161-162.

A general study of bacteria, yeasts, molds and viruses, considering their morphology, physiology, genetics and methods of control. Study is given to immunology topics: antigen-antibody properties, host-antigen interactions, humoral and cellular immune systems. The importance of microorganisms in environmental and applied fields is considered. Three lectures and one three-hour laboratory period each week.

**BIOL 340. Immunology 3 hours**

Prerequisites: BIOL 161-162.

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. May be repeated in different specialized areas. Additional fee may be required.

**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. May be repeated in different specialized areas. Additional fee may be required.

**BIOL 387. Animal Behavior 3 hours**

This course is cross-listed with PSYC 387. A student may receive credit for this course from only one program.

Prerequisites: BIOL 161-162 or PSYC 122 and 128.

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 408. Flowering Plants and Ferns 3 hours**

Prerequisites: BIOL 161-162.

This field study of trees, flowering plants and ferns emphasizes species identification with the aid of botanical keys, recognition of plant families and noting habitats where various species occur. Other taxonomic methods are introduced. Students prepare a collection of herbarium specimens. Two lectures and one field trip or three-hour laboratory period each week.

**BIOL 409. Smoky Mountain Flora 3 hours**

Prerequisite: BIOL 162.

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**

Prerequisites: BIOL 161-162.

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**

Prerequisites: 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 161-162 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: 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**

Prerequisites: BIOL 161-162.

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**

Prerequisites: BIOL 161-162; CHEM 151-152 or BIOL 101-102.

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 (E-1) (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 (E-1) (W) 3 hours**

Prerequisite: Senior standing.

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 430. Biosystematics and Speciation 3 hours**

Prerequisite: BIOL 424.

An introduction to theories and data relating to adaptation and speciation and how these theories are inferred in our modern classification of life. A phylogenetic analysis will be conducted on a particular group of animals or plants and the results will be compared with what is known about the processes of divergence. Tests of the various possible phylogenies will be conducted. Two lectures and one three-hour laboratory period each week.

**BIOL 476. Research in Biology I 1-2 hours**

Prerequisite: BIOL 284.

See BIOL 297 for course description.

**BIOL 477. Research in Biology II 1-2 hours**

Prerequisite: BIOL 284.

See BIOL 297 for course description.

**BIOL 478. Research in Biology III 1-2 hours**

Prerequisite: BIOL 284.

See BIOL 297 for course description.

**BIOL 495. Directed Study 1-3 hours**

Prerequisites: BIOL 161-162.

See BIOL 295 for course description.

**BIOL 476. Research in Biology 1-2 hours**

Prerequisite: BIOL 284.

See BIOL 297 for course description.

**BIOL 496. Senior Thesis 1 hour**

Prerequisite: 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 265. Topics in Marketing 1-3 hours**

Prerequisite: 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 295. Directed Study 1-3 hours**

Prerequisite: Approval of the Dean of the School.

A directed study involves individualized research into a selected topic chosen by the faculty advisor and the student.

### **BMKT 326. Principles of Marketing 3 hours**

Prerequisites: ECON 213, 225 or concurrent enrollment.

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: 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: 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)

### **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: 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**

Prerequisites: BMKT 326, 327.

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 3 hours**

Prerequisites: BMKT 326, 327.

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**

Prerequisites: BMKT 326, 327.

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: Permission of the instructor.

See course BMKT 265 for course description.

**BMKT 491. Marketing Practicum 1-3 hours**

Prerequisites: 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**

Prerequisites: 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: Approval of the Dean of the School.

See BMKT 295 for course description.

**BMKT 497. Marketing Research 3 hours**

Prerequisites: BMKT 326, 327; BUAD 221.

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 201. Foundations of Broadcasting 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. TV Studio Production 3 hours**

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 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 465. Topics in Broadcasting 1-3 hours**  
See BRDC 265 for course description.

**BRDC 492. Broadcast/Media Production Internship 3 hours**  
Prerequisites: 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 104. Business Software (A-4) 3 hours**  
A hands-on course designed to actively involve the student in the powerful capabilities of word processing, database, presentation software, and with document management using Adobe.

**BUAD 105. Business Spreadsheets (A-4) 3 hours**  
An application course where students use spreadsheets to present business data. In a hands-on environment a spreadsheet is the vehicle for classifying, summarizing, analyzing, automating, and presenting data to enhance management's decision-making capability.

**BUAD 126. Introduction to Business (G-2) 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 (F-2) 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 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 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: 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. An additional fee will be required to cover travel expenses.

**BUAD 295. Directed Study 1-3 hours**

Prerequisite: Approval of the Dean of the School.

A directed study involves individualized research into a selected topic chosen by the faculty advisor 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. An additional fee will be required to cover travel expenses. Lab fee 18 will be assessed for this course.

**BUAD 310. Business Communications (W) 3 hours**

Prerequisites: BUAD 104; COMM 135; ENGL 101-102.

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 317. Management Information Systems (A-4) 3 hours**

Covers the use and effect of computer information processing in a business environment with emphasis on management, internal control, the technical foundations of information processing, the systems development life cycle, legal, security, and ethical issues, database management, and artificial intelligence.

**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. Lab fee 2 is assessed for this course.

**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, 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. (Should be taken in Junior year of study). (Winter)

**BUAD 465. Topics in Business 1-3 hours**

Prerequisite: 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 491. Business Practicum 1-3 hours**

Prerequisites: 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**

Prerequisites: 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.)

**BUAD 493. International Business Communications (W) 3 hours**

Prerequisites: BUAD 104; COMM 135; ENGL 101-102.

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.

**BUAD 495. Directed Study 1-3 hours**

Prerequisite: 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.

**BUAD 497. Business Research 3 hours**

Prerequisites: BUAD 221; 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 (E-2) 3 hours**

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.

**CHEM 111. Survey of Chemistry I (E-2) 3 hours**

Prerequisites: A course in high school algebra. A minimum Mathematics ACT score of 16 or a minimum grade of "C" in MATH 080 are also required.

A survey course designed to familiarize the student with the basic principles of inorganic chemistry. Three hours of lecture each week. Does not apply to a major or minor in Chemistry. (Fall, Winter, Summer)

**CHEM 112. Survey of Chemistry II (E-2) 3 hours**

Prerequisite: Successful 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. Three hours of lecture each week. Does not apply to a major or minor in Chemistry. (Fall, Winter)

**CHEM 113. Survey of Chemistry Laboratory I (E-2) 1 hour**

Prerequisite: Previous or concurrent enrollment in CHEM 111.

Laboratory material designed to illustrate the material in CHEM 111. Two and one-half hours of laboratory each week. Does not apply to a major or minor in Chemistry. (Fall)

**CHEM 114. Survey of Chemistry Laboratory II (E-2) 1 hour**

Prerequisite: Previous or concurrent enrollment in CHEM 112.

Laboratory material designed to illustrate the material in CHEM 112. Two and one-half hours of laboratory each week. Does not apply to a major or minor in Chemistry. (Winter)

**CHEM 151-152. General Chemistry (E-2) 4,4 hours**

Prerequisites: High school chemistry and mathematics through high school Algebra II.

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, equilibrium, kinetics, thermodynamics, acids and bases, oxidation-reduction and electrochemistry, descriptive chemistry, and nuclear chemistry. To enroll in CHEM 152, a student must complete CHEM 151 with a grade of C- or higher. Three hours of lecture, one hour of recitation, and three hours of laboratory each week.

**CHEM 295. Directed Study 1-3 hours**

Prerequisite: 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 311-312. Organic Chemistry 4,4 hours**

Prerequisite: Completion of CHEM 152 with a grade of C- or higher.

Many of the fundamental functional groups of both aliphatic and aromatic compounds are studied. Attention is given to spectroscopy, relative reactivities, reaction mechanisms, and physical properties of these compounds. Laboratory experiments acquaint students with basic organic chemistry laboratory techniques and illustrate reactions that are discussed in lecture. To enroll in CHEM 312, a student must complete CHEM 311 with a grade of C- or higher. Three hours of lecture, one hour of recitation, and three hours of laboratory each week.

**CHEM 315. Quantitative Analysis 4 hours**

Prerequisite: 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. (Fall, alternate years)

**CHEM 321. Instrumental Analysis 4 hours**

Prerequisite: 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. (Winter, alternate years)

**CHEM 351. Biochemistry I 3 hours**

Prerequisites: Successful completion of CHEM 312 and BIOL 161 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, and proteins; an introduction to bioenergetics; enzyme kinetics and mechanisms; and carbohydrate metabolism. Three hours of lecture each week. (Fall)

**CHEM 352. Biochemistry II 3 hours**

Prerequisite: Completion of CHEM 351 with a grade of C- or higher.

A continued study of the basic principles of the chemistry of living organisms. Topics presented include the energy, lipid protein, and nucleic acid metabolism and information pathways. Three hours of lecture each week. (Winter)

**CHEM 353. Biochemistry Laboratory 1 hour**

Prerequisites: Successful completion of CHEM 315 with a grade of C- or higher and previous or concurrent enrollment in CHEM 351.

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. Four hours of laboratory each week. Requires computer data analysis. (Fall)

**CHEM 385. Chemistry Seminar 1 hour**

Prerequisites: Successful completion of CHEM 312 and COMM 135.

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. This course is to be taken in the junior year, prior to taking CHEM 497. (Winter)

**CHEM 411. Physical Chemistry I (W) 4 hours**

Prerequisites: Successful completion of CHEM 152, MATH 181, PHYS 212, 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, and reaction kinetics and dynamics. This class is offered alternate years and is not open to students who have taken PHYS 411. Three hours of lecture and four hours of laboratory each week.

**CHEM 415. Physical Chemistry II 3 hours**

Prerequisites: Successful completion of CHEM 152, MATH 315, PHYS 212, with a grade of C- or higher.

An introduction to quantum chemistry. Areas to be studied include: wave mechanics; boundary problems; the Schrodinger equation and its solution for one electron atoms and extension to multielectron systems; chemical bonding; and atomic and molecular spectroscopy. This class is offered alternate years and is not open to students who have taken PHYS 412. Three hours of lecture each week. (Winter, alternate years)

**CHEM 425. Advanced Organic Chemistry 3 hours**

Prerequisite: Successful completion of CHEM 312 with a grade of C- or higher.

A more in-depth study of many of the topics encountered in CHEM 311-312, accompanied by an introduction to new reagents, reaction types, and chemical theories. Topics include reaction mechanisms, synthetic methods, structure determination using spectroscopic techniques, and stereochemistry. (Winter, alternate years)

**CHEM 435. Inorganic Chemistry 4 hours**

Prerequisite: Successful 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: Successful completion of CHEM 152.

See CHEM 295 for course description.

**CHEM 497. Introduction to Research (W) 1-2 hours**

Prerequisite: Junior or senior chemistry major who has successfully completed CHEM 312.

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.

**Communication****COMM 103. Introduction to Communication (G-2) 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 (A-5) 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 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. Intercultural Communication Practicum 1-3 hours**

Prerequisite: Consent of instructor before arranging for practicum.

Supervised work experience in intercultural 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.

**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 (D-2) (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 (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 391. Intercultural Communication Practicum 1-3 hours**

Prerequisite: Consent of instructor before arranging for practicum.  
See COMM 291 for course description.

**COMM 397. Communication Research 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 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, and 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)

**COMM 465. Topics 1-3 hours**

See COMM 265 for course description.

**COMM 495. Directed Study 1-3 hours**

See COMM 295 for course description.

**Cooperative Education****COOP 265/465. 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**

Prerequisite: CPTR 103.

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. (Winter)



**CPHE 222. Organization, Architecture and Assembly Language 4 hours**

Prerequisites: 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**

Prerequisites: 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: MATH 182.

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**

Prerequisites: PHYS 212, 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**

Prerequisite: CPHE 222.

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. (Fall, even years)

**CPHE 410. Computer Interfacing 4 hours**

Prerequisites: CPHE 222, 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 and requires students to incorporate concepts from the lecture into a capstone embedded system design project. Three hours of lecture and three hours of laboratory each week. (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**

Prerequisites: Permission of instructor and school dean.

See CPHE 295 for course description.

## Information Systems

### **CPIS 210. Information Technology Hardware and Software 3 hours**

Prerequisites: CPTR 103; skills in using PC's, Word Processing, Spreadsheets, and Database software.

Hardware: CPU architecture, memory, registers, addressing modes, busses, instruction sets, multi processors versus single processors; peripheral devices: hard disks, CDs, video display monitors, device controllers, input/output; operating systems functions and types; operating systems modules: processes, process management memory and file systems management; examples of hardware architectures; examples of operating systems; basic network components, switches, multiplexers and media; installation and configuration of multiuser operating systems. (Fall)

### **CPIS 220. Applications Programming 3 hours**

Prerequisite: CPTR 124.

This course focuses on the design and implementation of business computing systems utilizing a modern programming environment. (Winter)

### **CPIS 265. Topics in Computer Information Systems 1-3 hours**

Prerequisite: 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**

Prerequisites: 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 315. Requirements and System Analysis 3 hours**

Prerequisites: Admission to the School of Computing; CPIS 220.

Requirements analysis. Object-oriented analysis and design. Use of data modeling tools. Emphasizes the factors for effective communications and integration with users and user systems. It encourages interpersonal skill development with clients, users, team members, and other associated with development, operation, and maintenance of the system. (Fall)

### **CPIS 430. Physical Design and Implementation 3 hours**

Prerequisites: CPIS 315; CPTR 319.

Selection of development environments and standards; software construction; structured, event driven and object-oriented application design; testing; software quality assurance; system implementation; user training; system delivery; post implementation review; configuration management; maintenance; reverse engineering and re-engineering; distributed systems; design and implementation of net-centric applications. (Winter)

### **CPIS 435. Project Management and Practice 3 hours**

Prerequisites: Admission to the School of Computing; CPIS 315; *Co-requisite*: CPTR 319 or CPIS 430.

Managing the system life cycle; requirements determination, logical design, physical design, testing, implementation; system and database integration issues; network and client-server management; metrics for project management and system performance evaluation; managing expectations; superiors, users, team members and others related to the project; determining skill requirements and staffing the project; cost-effectiveness analysis; reporting and presentation techniques; effective management of both behavioral and technical aspects of the project; change management. (Winter)

### **CPIS 442. Software Evaluation 2 hours**

Prerequisite: CPTR 124.

This course focuses on methods for evaluating popular application software packages. Performance and feature evaluation, reliability, usability, maintainability, security issues, and licensing issues. A major project is required. (Fall)

### **CPIS 465. Topics in Computer Information Systems 1-3 hours**

Prerequisite: Permission of the instructor.

See CPIS 265 for course description.

**CPIS 495. Directed Study in Computer Information Systems 1-3 hours**

Prerequisites: Permission of instructor and school dean.  
See CPIS 295 for course description.

## Computer Technology

**CPT 100. Computer Concepts (A-4) 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.

**CPT 105. Introduction to Word Processing (A-4) 1 hour**

Prerequisite: 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.

**CPT 106. Introduction to Spreadsheets (A-4) 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.

**CPT 107. Introduction to Database (A-4) 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.

**CPT 109. Presentation Technology (A-4) 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.

**CPT 110. Introduction to Web Development (A-4) 1 hour**

Web development using HTML. Designing and developing web sites using web site creation software. Maintaining and updating web sites.

**CPT 212. Web Programming 3 hours**

Prerequisite: CPTR 124.

Pre- or co-requisite: JOUR 242 or CPT 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. (Fall)

**CPT 228. Becoming a Power User 3 hours**

Prerequisites: Basic skills in using PC operating systems; word processing, spreadsheet, and database software.

Developing high-level skills in using both applications and systems software: Windows OS, Windows Server, utilities, word processor, spreadsheet, database, presentation, charting, and planning programs. Integrating applications. Building new applications using off-the-shelf software packages. (Winter)

**CPT 254. UNIX Systems Administration 3 hours**

Prerequisite: CPT 228.

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. (Fall)

**CPTe 265. Topics in Computer Technology 1-3 hours**

Prerequisite: 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**

Prerequisites: 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**

Prerequisites: Admission to the School of Computing; CPTe 228.

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**

Prerequisites: 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 465. Topics in Computer Technology 1-3 hours**

Prerequisite: Permission of the instructor.

See CPTe 265 for course description.

**CPTe 495. Directed Study in Computer Technology 1-3 hours**

Prerequisites: Permission of instructor and school dean.

See CPTe 295 for course description.

**Computer Science****CPTR 103. Principles of Computing (A-4) 3 hours**

A comprehensive introduction to the many areas of computing, including algorithmic problem solving, computer organization, operating systems, networking, net-centric computing, e-commerce and information systems. Introduction to the key issues and concepts throughout the field. Social and ethical issues in computing. (Fall)

**CPTR 124. Fundamentals of Programming (G-2) 4 hours**

Prerequisite: Math ACT  $\geq 22$  or MATH 107 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: CPTR 215 or CPIS 220.

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. (Winter)

**CPTR 215. Fundamentals of Software Design 4 hours**

Prerequisite: 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: 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**

Prerequisites: Consent of instructor and school dean.

Individual or group work in current computing technologies. May be repeated for credit up to six hours.

**CPTR 295. Directed Study in Computer Science 1-3 hours**

Prerequisite: 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 314. Data Structures, Algorithms and Knowledge Systems 4 hours**

Prerequisites: Admission to the School of Computing; CPTR 215; MATH 120 or equivalent. Recommended: MATH 181.

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. Fundamental issues in intelligent systems, search and constraint satisfaction, knowledge representation, and reasoning. (Fall)

**CPTR 319. Database Management Systems 3 hours**

Prerequisites: CPTR 103 and CPIS 220 or CPT 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 327. User Interface Design 3 hours**

Prerequisite: CPTR 124.

Applying the basic principles of human-computer interaction to the design of computer interfaces. Analysis of interface design and system integration problems. Comparison of standard graphical user interfaces (GUI) and application of guidelines for window, menu, and other dialogue techniques. Evaluate usability and compare interface design methodologies. (Fall)

**CPTR 328. Principles of Networking 3 hours**

Prerequisite: CPTR 103.

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**

Prerequisites: Admission to the School of Computing; CPHE 222; CPTR 314.

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**

Prerequisites: CPTR 215, 220. Recommended: CPTR 314.

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)

**CPTR 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)

**CPTR 415. Compiler Construction 3 hours**

Prerequisites: CPTR 405; 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: CPTR 314.

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**

Prerequisites: CPTR 314; MATH 182. *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: CPTR 328. *Recommended:* CPT 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. (Winter)

**CPTR 430. Algorithms 3 hours**

Prerequisites: CPTR 314; MATH 181, 280.

Techniques for the design and analysis of algorithms, divide-and-conquer, greedy, and dynamic programming algorithms. Computational complexity and analysis of particular algorithms of practical or theoretical importance in computer science. (Fall, even numbered years)

**CPTR 442. Theory of Computation 3 hours**

Prerequisites: CPTR 314; 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 446. Web Services 3 hours**

Prerequisite: CPT 212 or CPTR 209.

This is a practical course in web-centric computing from the server perspective. Topics include selection of web services servers, technical architecture of web services sites, security issues, implementation, management and maintenance of web services servers, web services design and implementation, and database integration. A team-based capstone project will be required. (Winter)

**CPTR 465. Topics in Computer Science 1-3 hours**

Prerequisite: Permission of the instructor.  
See CPTR 265 for course description.

**CPTR 486. Senior Seminar (W) 2 hours**

Prerequisites: 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 computer science 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**

Prerequisites: Consent of instructor and school dean.  
See CPTR 292 for course description.

**CPTR 495. Directed Study in Computer Science 1-3 hours**

Prerequisite: Permission of instructor and school dean.  
See CPTR 295 for course description.

**Economics****ECON 213. Survey of Economics (C-2) 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 225 has been taken. This course does not apply for credit to a BBA or BS Business major.

**ECON 224. Principles of Macroeconomics (C-2) 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 (C-2) 3 hours**

Prerequisite: 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: 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**

Prerequisites: 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: Permission of the instructor.  
See ECON 265 for course description.

## Outdoor Education

### **EDOE 301. Outdoor Ministries 3 hours**

This course is designed to assist teachers and youth leaders in the development of relationships between children and nature for the purpose of enriching the spiritual life of children and youth. The student will learn to plan object lessons from nature and how to enliven Sabbath School programs with nature. Leadership in Pathfinding and summer camp ministries will be emphasized. A variety of laboratory skills will be required in area school and church programs (up to 30 hours). A knowledge of nature is suggested but not required. An extended off-campus trip is required. Lab fee 6 will be assessed for this course.

### **EDOE 345. Environmental Education 2 hours**

This course is designed to give "hands-on" learning in the use of the outdoor classroom. Recent trends in methods, materials, strategies, laboratory techniques, assessment, and professional guidelines for the elementary and senior high school curriculum will be covered. Up to four (4) days field experience will be required as a part of the class project. Lab fee 6 will be assessed for this course.

## Education

### **EDUC 129. Introduction to and Foundations of Elementary Education 3 hours**

Prerequisite: Minimum ACT Composite of 19.

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**

Prerequisite: Minimum ACT Composite of 19.

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 (F-1) 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 (F-1) 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 295. Directed Study 1-3 hours**

Prerequisite: 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 319. Technology in Education (A-4) 3 hours**

Prerequisites: CPE 100 and 105 or equivalent high school computer class.

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: Admission to Teacher Education

This course is a professional development experience designed to prepare K-2 teachers to incorporate developmentally appropriate practices supporting literacy in the instructional program, including 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 twelve (12) 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: 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 325. Philosophy of Christian Education (W) 2 hours**

Prerequisite: Admission to Teacher Education or permission of the instructor.

A study of the scriptural principles and philosophic base of Christian education as expounded by Ellen G. White and implemented by the Seventh-day Adventist Church.

**EDUC 330. Library Materials for Children 2 hours**

Prerequisite: Admission to Teacher Education

This course presents to the student a knowledge of a wide variety of books and related materials for children, grades K-8. Develops an appreciation for books and reading that can be enthusiastically transmitted to young readers through critical evaluation and selection of books and materials. Correlates the use of books and materials to the differentiated needs and interests of young readers.

**EDUC 332. Elementary Reading Methods 3 hours**

Prerequisite: Admission to Teacher Education.

Survey of the materials and methods used in teaching reading in the elementary grades. It emphasizes the approaches to teaching reading including phonics instruction. Fifteen (15) hours of observations, micro-teaching, and field experience are required.

**EDUC 335. Reading and Language Arts Methods 4 hours**

Prerequisite: Admission to Teacher Education.

Survey of the principles and methods used for effective and evidence-based literacy instruction. Emphasis is placed on creating literacy frameworks that allow for differentiation including literature focus units, reading and writing workshops, and basal approaches. Students will learn methods for teaching literacy strategies and skills that apply to all content areas. An intensive culminating field experience in conjunction with EDUC 421, EDUC 453, EDUC 454, and EDUC 459 will provide opportunities for application of knowledge, skills, and dispositions. (Winter)

**EDUC 336. Language Acquisition and Development 2 hours**

This course is cross-listed with PSYC 336. A student may receive credit for this course from only one program

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. (Fall)

**EDUC 340. Foundations of Inclusive Education 2 hours**

Prerequisite: 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 (e.g. the natural learning cycle) to meet the needs of diverse students in inclusive classrooms. Based on a professional development school experience, this course will include an action research project. Lab fee 8 will be assessed for this course.

**EDUC 356. Classroom Assessment 2 hours**

Prerequisite: Admission to Teacher Education or permission of school dean.

This course is designed to prepare preservice teachers in developing, administering, scoring, and reporting different types of assessments for diverse learners. Ten (10) hours of field experience are required.

**EDUC 421. Behavior Management—Elementary 2 hours**

Prerequisite: Admission to Teacher Education.

This course examines basic principles of behavior management applicable to diverse learners. A variety of philosophical approaches to discipline are reviewed and discussed as students observe in a professional development school setting. An intensive culminating field experience in conjunction with EDUC 335, EDUC 453, EDUC 454, and EDUC 459 will provide opportunities for application of knowledge, skills, and dispositions. Lab fee 8 will be assessed for this course. (Winter)

**EDUC 422. Behavior Management—Secondary 2 hours**

Prerequisite: Admission to Teacher Education.

This course analyzes basic assumptions and techniques of classroom management models applying them to case studies. Issues of diversity are discussed. Ten (10) hours of field experience are required. Lab fee 8 will be assessed for this course. (Fall)

**EDUC 423. Issues in Adolescence 3 hours**

This course is cross-listed with PSYC 422. A student may receive credit for this course from only one program.

Prerequisite: EDUC 220.

See PSYC 422 for course description.

**EDUC 426. K-2 Multiage Methods 2 hours**

Prerequisite: Admission to Teacher Education.

Designed to give the student an understanding of administration, program planning, materials, and strategies for teaching in kindergarten and multiage classrooms. Emphasis is given to application of the principles of child development, differentiating instruction, and learning to promote harmonious physical, mental, social, and emotional growth. A minimum of fifteen (15) hours of observations, micro-teaching, and field experience are required.

**EDUC 434. Reading and Writing in the Content Areas 2 hours**

Prerequisite: Admission to Teacher Education.

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. A minimum of ten (10) hours of field experiences is required. This course meets secondary reading methods requirements.

**EDUC 437. Curriculum and General Methods, Grades 7-12 1 hour**

Prerequisites: Admission to Teacher Education and EDUC 356.

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 438. Curriculum Content Methods, Grades 7-12 1 hour**

Prerequisite: Admission to Teacher Education.

The majors which require methods courses are: Biology, Chemistry, English, French, History, Mathematics, Physics, Religious Education, and Spanish. Directed observation in selected schools and attendance at local professional meetings are considered part of this course. Among the student's responsibilities will be the collection and organization of a file of teaching materials, the preparation of lesson plans as set forth in the Teacher Education Program, and evaluation of textbooks. Twenty (20) hours of field experiences in selected schools and attendance at selected local professional meetings are considered a part of the course.

**EDUC 438. Curriculum Content Methods/Biology 1 hour**

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials of instruction; planning, testing, and evaluating student performance; and the survey and evaluation of textbooks.

**EDUC 438. Curriculum Content Methods/Chemistry 1 hour**

Prerequisite: Admission to Teacher Education. *Pre- or co-requisite:* CHEM 312.

Attention is given to national science education standards, methods and materials of instruction, planning, testing, and evaluating student performance, the survey and evaluation of textbooks, and the planning of laboratory experiments, including safety considerations and waste disposal.

**EDUC 438. Curriculum and Content Methods/English, Grades 7-12 1 hour**

Prerequisite: Admission to Teacher Education.

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.

**EDUC. 438. Curriculum Content Methods/History 1 hour**

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials of instruction, planning, testing, and evaluating student performances, and the survey and evaluation of textbooks.

**EDUC 438. Curriculum Content Methods/Languages 1 hour**

Prerequisite: Admission to the Teacher Education Program.

Attention is given to methods and materials of language instruction, planning, testing, and evaluating student performance; they survey and evaluation of textbooks appropriate for language teaching and learning is also included.

**EDUC 438. Curriculum Content Methods/Mathematics 1 hour**

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials of instruction, planning, testing, and evaluating student performance, and the survey and evaluation of textbooks. (Fall, odd years)

**EDUC 438. Curriculum Content Methods/Physics 1 hour**

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials of instruction, planning, testing, and evaluating student performance, the survey and evaluation of textbooks.

**EDUC 438. Curriculum Content Methods/Religion 1 hour**

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials construction, planning, testing and evaluating student performance, and the survey and evaluation of textbooks. (As needed)

**EDUC 449. School and Classroom Leadership 2 hours**

Prerequisites: Admission to Teacher Education and EDUC 453.

Classroom leadership focuses on the importance of making instructional decisions in a school leadership role. Emphasis is placed on the development of an integrated unit based on the natural learning cycle. School leadership includes topics such as interpersonal communication, administration of small schools, and the relationship of the teacher to constituencies.

**EDUC 450. Reading Assessment and Instruction 3 hours**

Prerequisite: EDUC 335.

An advanced course in comprehensive 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 453. Mathematics Methods in the Elementary School 2 hours**

Prerequisite: Admission to Teacher Education.

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. An intensive culminating field experience in conjunction with EDUC 335, EDUC 421, EDUC 454, and EDUC 459 provides opportunity for application of knowledge, skills, and dispositions. (Winter)

**EDUC 454. Science and Health Methods in the Elementary School 2 hours**

Prerequisite: Admission to Teacher Education.

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. An intensive culminating field experience in conjunction with EDUC 335, EDUC 421, EDUC 453, and EDUC 459 provides opportunity for application of knowledge, skills, and dispositions. (Winter)

**EDUC 455. Bible Methods in the Elementary School 2 hours**

Prerequisite: Admission to Teacher Education.

A course to develop teaching objectives, materials, and strategies in Biblical education with emphasis on the Christ-centered curriculum and integration of faith and learning. Special attention will be given to multigrade classrooms. A minimum of fifteen (15) hours of observations, micro-teaching, and field experience is required.

**EDUC 456. Language Arts Methods in the Elementary School 2 hours**

Prerequisite: Admission to Teacher Education.

Curriculum organization, methods, materials, and instructional aids with emphasis on multigrade classrooms. Strategies for instruction in writing, spelling, grammar, literature, and composition are developed. A minimum of fifteen (15) hours of observations, micro-teaching, and field experience is required.

**EDUC 457. Social Studies Methods in the Elementary School 2 hours**

Prerequisite: Admission to Teacher Education.

A course to develop teaching objectives, instructional strategies, materials, and methods when integrating social studies, geography, and the worldwide mission of the church. Special attention will be given to multi-grade classrooms. A minimum of fifteen (15) hours of observations, micro-teaching, and field experience is required.

**EDUC 459. Bible and Social Studies Teaching Methods in the Elementary School 2 hours**

Prerequisite: Admission to Teacher Education.

This course is designed to assist teacher candidates in the development of pedagogical knowledge, skills, and dispositions for teaching Bible and Social Studies to students in K-6<sup>th</sup> grades. The course provides instruction in making learning invitational and rigorous through developmentally appropriate teaching methods and strategies. Instruction is also provided in lesson planning, assessment, and differentiating instruction to meet the needs of diverse learners. An intensive culminating field experience in conjunction with EDUC 335, EDUC 421, EDUC 453, and EDUC 454 provides opportunity for application of knowledge, skills, and dispositions. (Winter)

**EDUC 464. Teaching Seminar 2 hours**

Prerequisite: 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. Guidance will be given in the development and presentation of the Student Teaching Portfolio.

**EDUC 471. Enhanced Student Teaching K-6 10 hours**

Prerequisite: Admission to Student Teaching.

Co-requisite: 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 10 hours**

Prerequisite: Admission to Student Teaching.

Co-requisite: 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 10 hours**

Prerequisite: Admission to Student Teaching.

Co-requisite: EDUC 464.

Designed as a full-time practicum for one semester. Students are 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 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: Admission to Teacher Education.

See EDUC 295 for course description.

**English Language Skills****EESL 031. Language Skills I: Writing 1 3 hours (non-credit)**

Prerequisite: TOEFL score between 450-474 (IBT 45-52)

A study of the steps in the writing process, the parts of the paragraph and basic essay, and several important patterns of organization. Emphasis on sentence structure and practice in academic writing skills. Students who do not both earn a minimum grade of C and achieve the minimum designated TOEFL score of 475 (IBT 53) will be required to repeat the course. A fee for the TOEFL test will be charged to the student's account.

**EESL 032. Language Skills I: Writing 2 3 hours (non-credit)**

Prerequisite: TOEFL score between 475-499 (IBT 53-60)

A study of the steps in the writing process, the parts of the paragraph and the basic essay, and several important patterns of organization. Emphasis on sentence structure and practice in academic writing skills. Students who do not both earn a minimum grade of C and achieve the minimum designated TOEFL score of 500 (IBT 61) will be required to repeat the course. A fee for the TOEFL test will be charged to the student's account.

**EESL 041. Language Skills I: Grammar 1 3 hours (non-credit)**

Prerequisite: TOEFL score between 450-474 (IBT 45-52)

A study of form, meaning and use of standard American English grammar. Emphasis on the application of correct grammatical structures in spoken and written English. Students who do not both earn a minimum grade of C and achieve the minimum designated TOEFL score of 475 (IBT 53) will be required to repeat the course. A fee for the TOEFL test will be charged to the student's account.

**EESL 042. Language Skills I: Grammar 2 3 hours (non-credit)**

Prerequisite: TOEFL score between 475-499 (IBT 53-60)

A study of form, meaning and use of standard American English grammar. Emphasis on the application of correct grammatical structures in spoken and written English. Students who do not both earn a minimum grade of C and achieve the minimum designated TOEFL score of 500 (IBT 61) will be required to repeat the course. A fee for the TOEFL test will be charged to the student's account.

**EESL 051. Language Skills I: Reading/Discourse 1 3 hours (non-credit)**

Prerequisite: TOEFL score between 450-474 (IBT 45-52)

A student of basic reading strategies and practice in analysis of interpretation. Emphasis also given to oral communication skills in academic and non-academic situations. Students who do not both earn a minimum grade of C and achieve the minimum designated TOEFL score of 475 (IBT 53) will be required to repeat the course. A fee for the TOEFL test will be charged to the student's account.

**EESL 052. Language Skills I: Reading/Discourse 2 3 hours (non-credit)**

Prerequisite: TOEFL score between 475-499 (IBT 53-60)

A study of basic reading strategies and practice in analysis of interpretation. Emphasis also given to oral communication skills in academic and non-academic situations. Students who do not both earn a minimum grade of C and achieve the minimum designated TOEFL score of 500 (IBT 61) will be required to repeat the course. A fee for the TOEFL test will be charged to the student's account.

**EESL 061. Language Skills I: TOEFL Preparation 1 hour (non-credit)**

Prerequisite: Admission to the ESL program

A course designed to help Intermediate students prepare for the TOEFL test, giving practice and experience in all areas of the test.

**EESL 121. Language Skills II: Grammar 1 3 hours**

Prerequisite: TOEFL score between 500-525 (IBT 61-70), and for students who have entered the program with TOEFL scores below 500 (IBT 61), a minimum grade of C in each of the Language Skills I classes.

This course focuses on the use of grammar to help improve writing effectiveness. Students who do not both earn a minimum grade of C and achieve the minimum designated TOEFL score of 525 (IBT 71) will be required to repeat the course. A fee for the TOEFL test will be charged to the student's account.

**EESL 122. Language Skills II: Grammar 2 3 hours**

Prerequisite: TOEFL score between 525-549 (IBT 71-79), and for students who have entered the program with TOEFL scores below 525 (IBT 70), a minimum grade of C in each of the Language Skills I classes.

This course focuses on the use of grammar to help improve writing effectiveness. Students who do not both earn a minimum grade of C and achieve the minimum designated TOEFL score of 550 (IBT 80) will be required to repeat the course. A fee for the TOEFL test will be charged to the student's account.

**EESL 131. Language Skills II: Writing/Reading 1 3 hours**

Prerequisite: TOEFL score between 500-524 (IBT 61-70), and for students who have entered the program with TOEFL scores below 500 (IBT 61), a minimum grade of C in each of the Language Skills I classes.

An integrated course to develop writing and reading skills for academic-related situations. Students who do not both earn a minimum grade of C and achieve the minimum designated TOEFL score of 525 (IBT 71) will be required to repeat the course. A fee for the TOEFL test will be charged to the student's account.

**EESL 132. Language Skills II: Writing/Reading 2 3 hours**

Prerequisite: TOEFL score between 525-549 (IBT 71-79), and for students who have entered the program with TOEFL scores below 525 (IBT 70), a minimum grade of C in each of the Language Skills I classes.

An integrated course to develop writing and reading skills for academic-related situations. Students who do not both earn a minimum grade of C and achieve the minimum designated TOEFL score of 550 (IBT 80) will be required to repeat the course. A fee for the TOEFL test will be charged to the student's account.

**EESL 141. Language Skills II: TOEFL Preparation 1 hour (non-credit)**

Prerequisite: 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.

## Literature

- ELIT 214. Survey of American Literature (D-2) 3 hours**  
 Prerequisite: 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 (D-2) 3 hours**  
 Prerequisite: 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 (D-2) 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 (D-2) 3 hours**  
 Prerequisite: 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 and for English major or minor credit.
- 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 (D-2) (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 (D-2) (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 (D-2) (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 Spenser, Shakespeare, Sydney, and translations of the English Bible from Tyndale's New Testament to the Authorized (King James) Version. (Winter, even years)
- ELIT 337. Nineteenth-Century British Literature (D-2) (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 (D-2) (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 (D-2) (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 (D-2) (W) 3 hours**  
This course is a study of selections from significant poetry, drama, and prose of western and non-western literature from the Middle Ages to the 20<sup>th</sup> century. (Winter, odd years)
- 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 (D-2) (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 20<sup>th</sup> century authors' various literary genres. (Fall, even year)
- ELIT 442. Shakespeare (D-2) (W) 3 hours**  
Prerequisite: 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. (Fall)
- ELIT 444. Restoration and Eighteenth-Century Literature (D-2) (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 (D-2) (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 (D-2) (W) 3 hours**  
This course is cross-listed with SPAN 454. A student may receive credit for this course from only one program.  
Prerequisite: SPAN 216 and MDLG 230 or approval of the department.  
See SPAN 454 for course description.
- 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 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 whose English ACT score is 17 or below are required to register for this class. In special cases where a Basic Writing student demonstrates the skills to succeed in ENGL 101, the composition coordinator and the professor of Basic Writing may agree to admit to ENGL 101 a student whose ACT is 17 or below. Students successfully completing this course will earn three institutional elective credits. To pass this course, students must earn a minimum grade of C. Near the end of the course, students will be required to 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 will be charged to their accounts. ENGL 100 does not count toward an English major or minor.

### **ENGL 101-102. College Composition (A-1) 3,3 hours**

Prerequisite to ENGL 101: ACT score of 18 or higher, or SAT score of 450 or higher, or TOEFL score of 550 or higher. ENGL 101 is prerequisite to ENGL 102.

A two-semester course focusing strongly on the writing process, especially revision. ENGL 101 emphasizes specific writing skills and principles which readily apply to most writing tasks. Students write expository essays organized according to prescribed modes. 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 essays and a research paper. This course does not count toward an English major or minor. (Fall, Winter, Summer)

### **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 304. Grammar and Linguistics for Elementary Teachers 3 hours**

Prerequisite: 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 (G-1) (W) 3 hours**

Prerequisite: 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 (G-1) (W) 3 hours**

Prerequisite: 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 (G-1) (W) 3 hours**

Prerequisite: 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 412. Preparing to Meet the Firms 1 hour**

This course is required for all non-teaching English majors as a help in job-hunting, especially through internships, which are strongly recommended for these students. It covers resumés, networking, corporate climate, interviewing, dress, portfolios, company research, and etiquette. Non-teaching majors will produce portfolios of their college work to present during University-hosted job fairs. Students should take this course in their junior year. (Winter)

**ENGL 414. Advanced Creative Writing 3 hours**

Prerequisites: 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 491. English Practicum 1-3 hours**

Prerequisites: 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**

Prerequisites: 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 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 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 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. (Fall)

### **ENGR 149. Introduction to Mechanical Drawing and CADD (G-2) 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 182; PHYS 211, 213.

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 212, 214, 215, 216.

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 212, 214.

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 (E-4) 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)

## Finance

### **FNCE 265. Topics in Finance 1-3 hours**

Prerequisite: 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: Approval of the Dean of the School.

A directed study involves individualized research into a selected topic chosen by the faculty advisor and the student.

**FNCE 315. Business Finance 3 hours**

Prerequisite: ACCT 222.

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: 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. (Fall)

**FNCE 452. Financial Markets, Rates, and Flows 3 hours**

Prerequisites: 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. (Winter)

**FNCE 461. Portfolio Management 3 hours**

Prerequisite: FNCE 455 or permission of instructor.

This course is cross-listed with FNCE 561. A student may receive credit for this course from only one program.

Includes consideration of investment instrument choices that are available to the investor and the purpose and operation of U.S. and global capital markets. The course also covers the methods of evaluation for current and future investment opportunities in the expansion of a portfolio of investments that satisfies an investor's risk-return goals. (Fall)

**FNCE 465. Topics in Finance 1-3 hours**

Prerequisite: Permission of the instructor.

See FNCE 265 for course description.

**FNCE 491. Finance Practicum 1-3 hours**

Prerequisites: 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**

Prerequisites: 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: Approval of the Dean of the School.

See FNCE 295 for course description.

**FNCE 497. Finance Research 3 hours**

Prerequisites: BUAD 221; 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 (D-1) 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 (D-1) 3 hours**

Prerequisite: FREN 101 or score a minimum of 296 on placement examination or approval of the department.

This course is a continuation on 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 (D-1) 3 hours**

Prerequisite: 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 (D-1) 3 hours**

Prerequisite: FREN 207 or score a minimum of 440 on placement examination or approval of the department.

Continues the 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. (Winter)

**FREN 244. French Composition and Conversation 3 hours**

Prerequisite: 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 344 is a sequence particularly suggested 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 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: 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 are some of the topics discussed.

**FREN 344. Advanced French Composition and Conversation 3 hours**

Prerequisites: 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**

Prerequisites: 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 3 hours**

Prerequisites: 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 (D-2) (W) 3 hours**

Prerequisites: 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 17<sup>th</sup> and 18<sup>th</sup> Centuries Literature (D-2) (W) 3 hours**

Prerequisites: 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 19<sup>th</sup> and 20<sup>th</sup> Centuries Literature (D-2) (W) 3 hours**

Prerequisites: 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*; Claudel, *Les Fleurs du mal*; Gide, *La Symphonie pastorale*; Camus, *L'Étranger*; Duras, *Moderato Cantabile*.

**FREN 459. Francophone Cultures and Literatures (D-2) (W) 3 hours**

Prerequisites: 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 prior to graduation in the last semester. 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 3 hours**

(C-2 credit for elementary education majors only).

Maps, land forms, soil, mineral resources, weather, and climate are considered. Man's adjustment to various physiographic regions is studied. (Fall)

**German****GRMN 101. Elementary German I (D-1) 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 (D-1) 3 hours**

Prerequisite: GRMN 101 or approval of the department.

This course is a continuation on 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 (D-1) 3 hours**

Prerequisite: GRMN 102 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 short selections in German. Laboratory work is required. Students may get credit by passing a "challenge examination" with a B grade. For information on the examination, students should refer to SAU 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 (D-1) 3 hours**

Prerequisite: 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 get credit by passing a "challenge examination" with a B grade. For information on this examination, students should refer to SAU 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 145. Civil War: Soldiers and Civilians 3 hours**

This on-line course covers the American Civil War with particular attention to the experience of common soldiers and civilians. A variety of resources are used in the class, including on-line material, a compact disc, a textbook, and a Civil War memoir. No general education credit given. (Only for qualified academy seniors).



**HIST 154, 155. American History and Institutions (C-1) 3,3 hours**

An introductory survey of the nation from colonial times 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, 175. World Civilizations (C-1) 3,3 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 (C-1) 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 295. Directed Study (C-1) 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 297. Historiography 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 (C-1) (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 (C-1) (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 (C-1) (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 (C-1) (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 (C-1) (W) 3 hours**

This course is cross-listed with 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 (C-1) (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. (Fall)

- HIST 359. Transformation of American Culture (C-1) (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 (C-1) (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 (C-1) (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 (C-1) (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 (C-1) (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 386. Rise of the West (C-1) (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 (C-1) (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 (C-1) (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 (C-1) (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 (C-1) [465 typically qualifies as a (W) course] 3 hours**  
See HIST 265 for course description.
- HIST 471. Classics of Western Thought I (C-1) (W) 3 hours**  
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 (C-1) (W) 3 hours**

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 495. Directed Study (C-1) (W) 1-3 hours**

See HIST 295 for course description.

**HIST 497. Research Methods in History (W) 3 hours**

Prerequisites: Word processing and familiarity with Internet searches are prerequisites to this course.

Historical theories, procedures, and research methods are examined in conjunction with the preparation of a research project. 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 undergirdings of the wellness profession is explored and developed. This course requires ten (10) hours of field based experience. (Fall)

**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 173. Health for Life (F-3) 2 hours**

A study of current health topics, which includes: Integrating healthful living with today's scientific research and Christianity into a balanced lifestyle. Topics include: Alcohol, tobacco and drugs, mental health, human sexuality, safety, nutrition, stress, death and dying, the eight natural remedies with perspectives from Ellen White and others.

**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 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 5 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: 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 135. Nutrition for Life (F-3) 3 hours**

A general education course introducing a student to the basic principles of human nutrition. Includes study of the 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 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 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 (D-3) 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 (C-1) 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 215. Cross-Cultural Experience (C-2) 3 hours**

A course for student missionaries assigned to a country other than the United States. Focuses on geographic and social characteristics. Activities include journal of on-site observations, and two formal papers after return to campus. Prior to departure, the student will make all arrangements with an instructor assigned by the History Department. A two-thirds tuition waiver applies to this class. Refer to finance section of the *Catalog*.

**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 415. Cross-Cultural Experience (C-2) 3 hours**

See HMNT 215 for course description.

**HMNT 451, 452. Honors Seminar 1,1 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.

**Health, Physical Education, Recreation****HPER 365. Topics in HPER 1-3 hours**

Selected topics in Health, Physical Education, or Recreation designed to meet the needs or interests of students in specialty areas not covered in regular courses. Subjects covered will determine how the class applies to the major. This course may be repeated for credit.

**Italian****ITAL 101. Elementary Italian I (D-1) 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. Lab fee 3 will be assessed for this course. (Fall)

**ITAL 102. Elementary Italian II (D-1) 3 hours**

Prerequisite: 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. Lab fee 3 will be assessed for this course. (Winter)

**ITAL 207. Intermediate Italian I (D-1) 3 hours**

Prerequisite: 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 (D-1) 3 hours**

Prerequisite: 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 (G-2) 3 hours**

Prerequisite: No less than a "C" in ENGL 101.

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 (G-2) 3 hours**

Prerequisite: 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**

Prerequisites: JOUR 208 or CPTR 103.

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 265. Topics in Communication 1-3 hours**

Selected topics in journalism or related areas of communication.

**JOUR 291. Practicum 1-3 hours**

Prerequisite: 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**

Prerequisites: JOUR 205, 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 (G-1) 2-3 hours**

Prerequisite: 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. One hour lecture, three hours of laboratory each week for 2 hours credit. Students registering for 3 hours credit will complete extra projects and 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**

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 Online Journalism 3 hours**

Prerequisite: JOUR 242.

This course adds a level of interactivity to the skills a student has acquired in Introduction to Web Design by focusing on advanced Web design tools. In this course, the student will use Flash and other dynamic Web elements to produce online media with increased user interactivity (e.g., forms and back-end databases) utilizing best practices for Web site navigation and information design. (Fall, odd years)

**JOUR 356. Advanced Reporting (W) 3 hours**

Prerequisite: 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. (Winter, even years)

**JOUR 391. Practicum 1-3 hours**

Prerequisite: 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: Senior standing.

Required of all B.S. seniors taking the New Media or Photography concentration, this student-selected, department-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. Satisfactory completion of this course is required before the school grants the bachelor's degree. Graded S for "satisfactory" or NC for "not complete."

**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: 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.

**Long-Term Care Administration****LTCA 265. Topics in Long-Term Care Administration 1-3 hours**

Prerequisite: 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 3 hours**

Prerequisite: MGNT 464

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. (Summer)

**LTCA 432. Technological Aspects of Long-Term Care 3 hours**

A detailed study of the technical aspects of long-term care administration. Their relationship to other health care facilities in the total health care system, and technically related medical relationships and services. A complete review of COBRA is also included. (Summer)



**LTCA 434. Financial Management of the Long-Term Care Facility 3 hours**

Prerequisite: FNCE 315.

A review of techniques and interpretation of financial information for management decision-making in the long-term care facility. (Summer)

**LTCA 435. Human Resource Management and Marketing of the Long-Term Care Facility 3 hours**

Prerequisite: MGNT 344

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)

**LTCA 465. Topics in Long-Term Care Administration 1-3 hours**

Prerequisite: Permission of the instructor.

See LTCA 265 for course description.

**LTCA 492. Long-Term Care Administration Internship 4-8 hours**

The internship is a tailored program of 400-1000 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. Two on-site visits by the program director will be arranged by the student. 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**

Prerequisites: BUAD 221; LTCA 431, 432, 434, 435, or permission of LTCA Coordinator.

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 who meet NEITHER of the following criteria: 1) ACT math standard score of 16 or above; 2) high school Algebra II with a grade of C or better. Tuition for three semester hours will be charged for this course. (Fall)

**MATH 106. Survey of Mathematics I (A-2) 3 hours**

Topics chosen from problem solving techniques, numeration systems, the real number system, the metric system, financial management, probability, statistics. This course does not apply on a major or minor in mathematics. (Fall, Winter, Summer)

**MATH 107. Survey of Mathematics II (A-2) 3 hours**

Topics chosen from set theory, logic, algebra, functions (polynomial, exponential, logarithmic), systems of linear equations and inequalities, matrices, linear programming, graph theory, geometry, voting and apportionment. This course does not apply on a major or minor in mathematics. MATH 106 is not a prerequisite for MATH 107. (Fall, Winter)

**MATH 120. Precalculus Algebra (A-2) 3 hours**

Prerequisite: Either completion of high school Algebra II with a grade of C or better and an ACT Mathematics score of 19 or above, or MATH 107 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; conic sections. This course does not apply on a major or minor in mathematics. (Fall, Winter, Summer)

**MATH 121. Precalculus Trigonometry (A-2) 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 181. Calculus I 3 hours**

Prerequisite: MATH 120 or a high school precalculus course.

Differential and integral calculus of the elementary functions (non-trigonometric) 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. (Fall, Winter)

**MATH 182. Calculus II 4 hours**

Prerequisites: MATH 121 or equivalent and MATH 181.

Precise definitions of limits, calculus of the trigonometric functions, 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: MATH 181.

Systems of linear equations, matrices and determinants, vector spaces, linear transformations, eigenvalues and eigenvectors, applications. (Winter)

**MATH 215. Statistics (A-2) 3 hours**

Prerequisite: An ACT mathematics standard score of 22 or above, or two years of high school algebra, or MATH 106, or MATH 107.

An introduction to descriptive and inferential statistics including organization and analysis of data, elementary probability, probability distributions (binomial, normal, Student's  $t$ , chi-square,  $F$ ), estimation, hypothesis testing, correlation and regression. (Fall, Winter)

**MATH 218. Calculus III 4 hours**

Prerequisite: MATH 182.

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: MATH 181.

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: 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: MATH 120 recommended; 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: 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 312. History of Mathematics 3 hours**

Prerequisite: MATH 182.

A survey of the development of classical mathematics from ancient times to calculus, together with selected topics from the history of modern mathematics. (Winter, odd years)

- MATH 315. Differential Equations 3 hours**  
 Prerequisite: MATH 182.  
 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: MATH 315.  
 Partial differential equations, Fourier series, boundary value problems, Bessel functions, Legendre polynomials. (Fall, even years)
- MATH 317. Complex Variables 3 hours**  
 Prerequisites: MATH 218, 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**  
 Prerequisites: MATH 218, 219.  
 The structure of groups, rings, integral domains, and fields. (Fall, even years)
- MATH 319. Linear Algebra 2 hours**  
 Prerequisites: MATH 200, 219.  
 Finite dimensional vector spaces and the attendant concepts of systems of linear equations, linear transformations, matrices, determinants, eigenvalues and eigenvectors, inner product spaces. (Winter, odd years)
- MATH 325. Probability Theory 3 hours**  
 Prerequisite: MATH 182.  
 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 411-412. Intermediate Analysis 3,3 hours**  
 Prerequisites: MATH 218, 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; Winter, even years)
- MATH 415. Geometry 3 hours**  
 Prerequisite: 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: Permission of the instructor.  
 See MATH 265 for course description.
- MATH 485. Mathematics Seminar (W) 1 hour**  
 Prerequisite: Permission of mathematics staff.  
 Written and oral reports are made on a variety of topics in mathematics including topics in current mathematical literature. Mathematics majors obtaining secondary certification must choose topics in the history and philosophy of mathematics. (Fall, odd years)
- MATH 495. Directed Study 1-3 hours**  
 Prerequisite: 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: 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 (D-1) 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.

## Management

**MGNT 265. Topics in Business 1-3 hours**  
Prerequisite: 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: Approval of the Dean of the School.

A directed study involves individualized research into a selected topic chosen by the faculty advisor 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**  
Prerequisite: MGNT 334.

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. (Winter)

**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 358. Operations Management 3 hours**

Prerequisite: MGNT 334.

The design, operation, and continued improvement of the systems that create a firm's primary products or services. This course presents operations management tools and principles, such as total quality management, forecasting, inventory management, just-in-time production, waiting line management. (Fall)

**MGNT 364. International Business and Economics 3 hours**

Prerequisites: ECON 224, 225; MGNT 334.

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: 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**

Prerequisites: ACCT 103 or ACCT 222; MGNT 334.

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**

Prerequisite: MGNT 334

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**

Prerequisite: MGNT 334

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 460. Compensation and Benefits 3 hours**

Prerequisite: 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 organizational 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**

Prerequisites: 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: Permission of the instructor.

See MGNT 265 for course description.

**MGNT 470. Strategic Management in Nonprofit Organizations 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**

Prerequisites: 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**

Prerequisites: 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: Approval of the Dean of the School.  
See MGNT 295 for course description.

**MGNT 497. Management Research 3 hours**

Prerequisites: BUAD 221; 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 (D-3) 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. (Winter)

**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 101. Basic Musicianship I 2 hours**

A course designed to introduce students to the elements of music, including pitch and rhythmic notation, key and time signatures, major and minor scales, and intervals. A keyboard component is included. This course does not apply toward a major or minor in music.

**MUCT 102. Basic Musicianship II 2 hours**

Prerequisite: MUCT 101 or permission of instructor.

A continuation of MUCT 101, studying triads, seventh chords, and their application within the tonal system, concluding with principles of voice leading and root position part writing. A keyboard component is included. MUCT 101 and MUCT 102 will be accepted as substitute for MUCT 111, Music Theory I, if completed with "A" (90 percent or higher.)

**MUCT 111-112. Music Theory I and II 3,3 hours**

Prerequisite: 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.

**MUCT 121-122. Aural Theory I and II 1,1 hours**

A laboratory for the development of keyboard and sight-singing skills related to the materials introduced in MUCT 111-112. Music majors must take this concurrently with MUCT 111-112. This is a computer assisted course.

**MUCT 211-212. Music Theory III and IV 3,3 hours**

Prerequisites: MUCT 111-112.

An expanded and intensified study of the structure of music as begun in MUCT 111-112. In MUCT 212, contemporary music is emphasized.

**MUCT 221-222. Aural Theory III and IV 1,1 hours**

Keyboard and sight-singing applications of materials studied in MUCT 211-212. Music majors must take this concurrently with MUCT 211-212. This is a computer-assisted course.

**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**

Prerequisites: MUCT 111-112.

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. (Winter, even numbered years)

**MUCT 315. Compositional Techniques 3 hours**

Prerequisite: MUCT 212.

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 numbered years)

**MUCT 413. Analysis of Musical Forms 3 hours**

Prerequisites: MUCT 211-212 or permission of instructor.

An analytical study of musical structure from the smallest units of form to the more complex music of all historical periods. (Winter, odd numbered years)

**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: 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 numbered 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 numbered years)

**MUED 250. Technology in Music Education (A-4) 2 hours**

Prerequisite: 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. (Fall, odd numbered years)

**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 numbered 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 276. Vocal Methods and Techniques 2 hours**

A study of tonal production, performance technique, breath management, vocal diction and practical pedagogical techniques with attention to the care and maintenance of a healthy voice. Observation of classroom and private instruction is required. (Fall, even numbered years)

**MUED 316. Piano Pedagogy 2 hours**

Prerequisite: 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 numbered years)

**MUED 317. Voice Pedagogy 2 hours**

Prerequisite: 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: 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 numbered years)

**MUED 331. Music in the Elementary School 3 hours**

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, even numbered 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. (Winter, odd numbered years)

**MUED 439. Pre-Student Teaching Seminar 1 hour**

Prerequisite: 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. Listening to Music (D-3) 3 hours**

A course designed to acquaint the student with the major composers, musical styles, and forms of Western music. Two listening periods per week are required. This course does not apply toward a major in music.

**MUHL 118. Musical Styles and Repertoires (D-3) 2 hours**

Prerequisite: MUCT 111 or permission of instructor.

A global introduction to musical style and literature designed for music majors and minors. Emphasis is upon aural recognition as folk, popular, and classical traditions are studied within their historical and cultural contexts. One listening period per week is required. (Winter)

**MUHL 120. Music in the United States (D-3) 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. (Fall)

**MUHL 320. Music of the Middle Ages and Renaissance (D-3) (W) 2 hours**

Prerequisites: MUHL 115 or 118; MUCT 111-112, or permission of instructor.

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 16<sup>th</sup> century. (Fall, odd years)

**MUHL 321. Music of the Late Renaissance and Baroque Era (D-3) (W) 2 hours**

Prerequisites: MUHL 115 or 118; MUCT 111-112, or permission of instructor.

Beginning with the Reformation and Counter-Reformation, the course traces the history of western music to the mid-18<sup>th</sup> century with the principal composers, styles, and genres of the Baroque period. (Winter, even years)

**MUHL 322. Classic and Romantic Music (D-3) (W) 2 hours**

Prerequisites: MUHL 115 or 118; MUCT 111-112, or permission of instructor.

A study of the major composers, genres, and stylistic trends in Europe and the United States from the mid-18<sup>th</sup> century through the 19<sup>th</sup> century. (Fall, even years)

**MUHL 323. Music in the Twentieth Century (D-3) (W) 2 hours**

Prerequisites: MUHL 115 or 118; MUCT 111-112, or permission of instructor.

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. (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: 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.

**Choral Ensembles, Individual and Group Instruction****MUPF 103, 104, 105, 106. Class Piano 1-4 (G-1) 1,1,1,1 hour**

A four-semester course sequence designed to develop basic piano skills, from the playing of scales, chords, and simple melodies to the accomplished performance of hymns and piano repertoire. Students will study scales, arpeggios, cadences, standard piano literature and hymns, accompaniments, and improvised harmonization. Students will be placed at the appropriate level based on the results of the piano placement test.

**MUPF 108. Group Instruction (G-1) 1-2 hours**

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 (G-1) 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 (G-1) 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 (G-1) 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 (G-1) 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 (G-1) 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 (G-1) 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 (G-1) 1 hour**

A course designed to provide credit for chamber ensembles or, in the case of keyboard majors, significant accompanying experience.

**MUPF 188. Vocal Ensemble Experience (G-1) 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 (G-1) 1-2 hours**

Prerequisite: 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. (Fall, Winter, Summer)

**MUPF 225. Singers Diction I (G-1) 2 hours**

An introduction to the study of Italian, German, French, and English pronunciation, using the International Phonetic Alphabet. (Fall, odd numbered years)

**MUPF 226. Singers Diction II (G-1) 2 hours**

Prerequisite: MUPF 225 or permission of instructor.

The advanced study of Italian, German, French, and English pronunciation, using the International Phonetic Alphabet. (Winter, even numbered years)

**MUPF 273. Basic Conducting (G-1) 1 hour**

Prerequisite: MUCT 111

The development of basic conducting skills, focusing on beat patterns, expressive gestures, score preparation and rehearsal techniques. (Fall)

**MUPF 279. Service Playing (G-1) 1 hour**

Prerequisite: 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 (G-1) 1 hour**

Prerequisite: 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 308. Group Voice Instruction (G-1) 1-2 hours**  
Intermediate to advanced voice. The instruction will emphasize voice techniques through vocalises and solo performance (both in class and for recitals.) May be repeated for credit.
- MUPF 318. I Cantori (G-1) 1 hour**  
See MUPF 118 for course description.
- MUPF 319. Bel Canto (G-1) 1 hour**  
See MUPF 119 for course description.
- MUPF 328. Wind Symphony (G-1) 1 hour**  
See MUPF 128 for course description.
- MUPF 329. Applied Music (G-1) 1-2 hours**  
Prerequisite: 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. (Fall, Winter, Summer)
- MUPF 334. Chamber Music (G-1) 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 20<sup>th</sup> century. May be repeated for credit.
- MUPF 338. Symphony Orchestra (G-1) 1 hour**  
See MUPF 138 for course description.
- MUPF 344. Instrumental Literature (G-1) 2 hours**  
Study and performance of solo literature for strings, brass, woodwinds, or percussion from the earliest examples to works of the 20<sup>th</sup> century.
- MUPF 358. Die Meistersinger Male Chorus (G-1) 1 hour**  
See MUPF 158 for course description.
- MUPF 373. Choral Conducting (G-1) 2 hours**  
Prerequisite: 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. (Winter, odd numbered years)
- MUPF 374. Instrumental Conducting (G-1) 2 hours**  
Prerequisite: 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, even numbered years)
- MUPF 378. Instrumental Ensemble Experience (G-1) 1 hour**  
See MUPF 178 for course description.
- MUPF 388. Vocal Ensemble Experience (G-1) 1 hour**  
See MUPF 188 for course description.
- MUPF 389. Concentration (G-1) 1-2 hours**  
Prerequisite: 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. (Fall, Winter, Summer)

**MUPF 489. Senior Recital (G-1) 2 hours**

Prerequisite: 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.

**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 (A-6) 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 227-228. Christian Service I, II 6,6 hours**

This class is administered by the University Chaplain.

Prerequisite: 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 (F-3) 3 hours**

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****NRSG 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.

**NRSG 103. Associate Nurse Perspectives 1 hour**

Prerequisite: 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.

**NRSG 106. Fundamentals I 4 hours**

Prerequisites: Admission to the School of Nursing; BIOL 101; CHEM 111.

Co-requisites: BIOL 102; NRNT 125.

A foundation course that introduces the NSM in which health assessment is viewed from the physiological, psychological, sociocultural, developmental, and spiritual variables of client systems. The eight natural remedies will be presented with an emphasis on primary prevention. The nursing process and basic skills are introduced. Application of nursing assessment, process, and skills will be in long-term care facilities. Three hours theory and one hour clinical.\* Lab fee 11 will be assessed for this course.

**NRSG 107. Fundamentals II 4 hours**

Prerequisite: NRSG 106.

A second foundation course that builds on the NSM and basic nursing concepts mastered in Fundamentals I. The physiological, psychological, sociocultural, developmental, and spiritual variables of adult clients are discussed and applied to clinical care of hospitalized individuals with special emphasis on the surgical patient. Concepts and skills in pharmacology are introduced, practiced, and applied in secondary care clinical facilities. Professional concerns of management, ethics, legal aspects, and interaction with members of the health care delivery system are addressed. Three hours theory and one hour clinical. Lab fee 9 will be assessed for this course.

**NRSG 126. Adult Health I 4 hours**

Prerequisite: NRSG 107; Co-requisite: 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 10 will be assessed for this course.

**NRSG 130. Mental Health 4 hours**

Prerequisite: NRSG 107; Co-requisite: 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 10 will be assessed for this course.

**NRSG 191. Nursing Practicum 1 hour**

Prerequisites: NRSG 126, 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)

**NRSG 212. Childbearing Family 4 hours**

Prerequisites: NRSG 126, 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 10 will be assessed for this course.

**NRSNG 226. Adult Health II 4 hours**

Prerequisites: NRSNG 126, 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 10 will be assessed for this course.

**NRSNG 231. Child Health 4 hours**

Prerequisites: NRSNG 191, 212, 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 includes secondary-care and community settings. Three and one-quarter hours theory and three-quarter hour of clinical. Lab fee 10 will be assessed for this course.

**NRSNG 240. Computers in Nursing (A-4) 1 hour**

Prerequisites: CPT 100, 106; NRSNG 106, 107.

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 and Introduction to Spreadsheets, as well as building on basic nursing skills.

**NRSNG 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.

**NRSNG 295. Directed Study 1-3 hours**

Prerequisite: 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.

**NRSNG 305. Adult Health III 4 hours**

Prerequisites: NRSNG 191, 212, 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 10 will be assessed for this course.

**NRSNG 309. Nursing Seminar 4 hours**

Prerequisites: NRSNG 231, 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 (70 clock hours). Included is a nursing content review course in preparation for NCLEX-RN. Lab fee 14 will be assessed for this course.

**NRSNG 314. Herbal Therapy 1 hour**

Pre- or Co-requisites: NRSNG 212, 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)

**NRSG 316. Applied Statistics for Health Professions 3 hours**

Prerequisite: Meet SAU'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.

**NRSG 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 wholistic care. This complementary approach to health care is designed for all majors. Limited enrollment. Lab fee 5 will be assessed for this course.

**NRSG 321. Mission Nursing 3 hours**

Prerequisites: NRSG 212, 226; Pre- or Co-requisite: NRSG 231.

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 nurse 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. A field trip (at student expense) to a developing country in the western hemisphere is optional. Limited enrollment. Lab fee 5 will be assessed for this course.

**NRSG 322. Transitions in Professional Nursing 3 hours**

Prerequisites: NRSG 231, 305, 309.

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.

**NRSG 328. Nursing Assessment 3 hours**

Prerequisites: NRSG 231, 305, 309; Co-requisite: NRSG 322.

A course that provides opportunity for development of more advanced wholistic assessment skills. Health is assessed within the framework of the environment, with attention to intra-, inter-, and extra-personal stressors and system stability. Health education is integrated with the assessment process. Two hours theory, one hour clinical. Lab fee 5 will be assessed for this course.

**NRSG 331, 332. Introduction to Nursing Informatics I, II 2, 1 hours**

Prerequisites: NRSG 126, 130.

These courses are designed to introduce nursing students to nursing informatics, a combination of computer science, information science, and nursing science. The student will be introduced to the management and processing of nursing data, information, and knowledge in order to support the practice and delivery of nursing care. (Must take NRSG 331 before or concurrent with NRSG 332; may not take NRSG 332 alone.) Lab fee 5 will be assessed for this course.

**NRSG 340. Community Health Nursing (W) 5 hours**

Prerequisites: NRSG 231, 305, 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 7 will be assessed for this course.



**NRSG 364. Transcultural Nursing 2 hours**

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 365. Topics in Nursing 1-3 hours**

See NRSG 265 for course description.

**NRSG 389. Nursing Pharmacology 3 hours**

Prerequisites: NRSG 231, 305, 309; CHEM 111 or 151; Co-requisite: CHEM 112 or 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.

**NRSG 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 434. Pathophysiology 3 hours**

Prerequisites: NRSG 231 305, 309; CHEM 111 or 151; Co-requisite: CHEM 112 or 152.

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 5 will be assessed for this course.

**NRSG 449. Death and Dying (F-1) 2 hours**

This course is cross-listed with SOCI 249/449, SOCW 249, and PSYC 249. A student may receive credit for this course from only one program.

See SOCI 249/449 for course description. (Winter)

**NRSG 465. Topics in Nursing 1-3 hours**

See NRSG 265 for course description.

**NRSG 485. Nursing Leadership and Management 3 hours**

Prerequisites: TN RN Licensure; NRSG 322, 328, 340.

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. Lab fee 9 will be assessed for this course.

**NRSG 491. Senior Nursing Practicum 2-3 hours**

Prerequisites: TN RN licensure; NRSG 322, 328, 340, 389; Co-requisites: NRSG 434, 485, 497.

A practicum that focuses on health needs of aggregates in the community. It is designed to give the student opportunity to use critical thinking and decision making skills when integrating theory from previous and current courses to clinical practice within selected settings. Two hours clinical. Lab fee 9 will be assessed for this course.

**NRSG 495. Directed Study 1-3 hours**

Prerequisite: Approval of the school dean.

See NRSG 295 for course description.

**NRSG 497. Research Methods in Nursing (W) 3 hours**

Prerequisites: NRSG 231, 305, 309, 316; 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**

This introductory course designed for outdoor enthusiasts is a survey of outdoor adventure activities in the Southeast. Students will gain exposure to backcountry equipment and clothing, backcountry cooking, wilderness navigation and travel techniques, and adventure facilitation. Activities covered include canoeing, kayaking, white water rafting, rock climbing, caving, knots for the outdoor enthusiast, low-impact camping, and basic horsemanship. Leadership skills are emphasized, and students will learn education techniques, group dynamics, wilderness ethics in conjunction with their field experiences, and obtain certification in Wilderness First Aid. An extended off-campus trip is required. Lab fee 17 will be assessed for this course. (Summer/Fall)

**OUTL 141. Fly-Fishing 1 hour**

This course is cross-listed with PEAC 141, School of Physical Education, Health and Wellness. A student may receive credit for this course from only one program.

See PEAC 141 for course description.

**OUTL 142. Canoeing 1 hour**

This course is cross-listed with PEAC 142, School of Physical Education, Health and Wellness. A student may receive credit for this course from only one program.

A leadership skills course in flat and moving water canoeing (up to Class III). Students learn how to apply current industry standards and techniques to safely lead group trips and expeditions. Instruction is done in the classroom culminating with a 5-day canoeing expedition. May be taken for American Canoe Association certification. Lab fee 13 will be assessed for this course. (Fall or Spring break)

**OUTL 145. Basic Rock Climbing 1 hour**

This course is cross-listed with PEAC 145, School of Physical Education, Health and Wellness. A student may receive credit for this course from only one program.

This course introduces students to the sport of rock climbing and provides the foundation for more advanced climbing courses. 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. Lab fee 7 will be assessed for this course.

**OUTL 146. Whitewater Rafting Guide 1 hour**

This course is cross-listed with PEAC 146, School of Physical Education, Health and Wellness. A student may receive credit for this course from only one program.

An entry-level course emphasizing the technical and educational proficiencies necessary to be a safe and professional white water rafting guide. Students will work closely with their instructor and local guiding organizations 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. Lab fee 8 will be assessed for this course. (Winter)

**OUTL 148. Basic Horsemanship 1 hour**

This course is an introduction to basic horseback riding, designed for students with no 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 11 will be assessed for this course.

**OUTL 151. Scuba 1 hour**

This course is cross-listed with PEAC 151, School of Physical Education, Health and Wellness. A student may receive credit for this course from only one program.

See PEAC 151 for course description.

**OUTL 152. Caving 1 hour**

This course is cross-listed with PEAC 152, School of Physical Education, Health and Wellness. A student may receive credit for this course from only one program.

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. The course leads to certification in K-12 Project Underground curriculum. Lab fee 6 will be assessed for this course. (Winter)

**OUTL 153. Wilderness First Aid 1 hour**

Fast paced and hands-on, this two-day course covers a wide range of wilderness medicine topics for people who travel and work in the outdoors. This course is pre-approved by such organizations as: the American Camping Association, the United States Forest Service, and other governmental agencies. This course may also be used for wilderness medicine recertification by those with previous training. Upon successful course completion, a student will earn a WMI of NOLS wilderness medicine certification. Lab fee 9 will be assessed for this course.

**OUTL 155. Basic Kayaking 1 hour**

This course is cross-listed with PEAC 155, School of Physical Education, Health and Wellness. A student may receive credit for this course from only one program.

See PEAC 155 for course description.

**OUTL 156. Land Navigation 1 hour**

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 three-day cross country experience. Lab fee 5 will be assessed for this course. Offered on a rotating basis.

**OUTL 212. Backpacking 1 hour**

This course is cross-listed with PEAC 212, School of Physical Education, Health and Wellness. A student may receive credit for this course from only one program.

See PEAC 212 for course description.

**OUTL 214. Mountain Biking 1 hour**

This course is cross-listed with PEAC 214, School of Physical Education, Health and Wellness. A student may receive credit for this course from only one program.

See PEAC 214 for course description.

**OUTL 215. CHA Horsemanship Certification 1 hour**

Prerequisite: OUTL 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 13 will be assessed for this course.

**OUTL 218. Fundamentals of Outdoor Leadership 3 hours**

Prerequisite or Co-requisite: 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. Lab fee 6 will be assessed for this course. (Fall)

**OUTL 220. Advanced Rock Climbing 1 hour**

This course is cross-listed with PEAC 220, School of Physical Education, Health and Wellness. A student may receive credit for this course from only one program.

Prerequisite: OUTL/PEAC 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 have a climbing resume of a minimum of forty (40) climbs to enroll in this course. 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. An extended climbing road trip will take place during fall break. Lab fee 8 will be assessed for this course. (Winter)

**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.

See PSYC 221 for course description.

**OUTL 230. Equine Behavior and Training Management 1 hour**

Prerequisites: OUTL 148 and 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 11 will be assessed for this course.

**OUTL 248. Intermediate Horsemanship 1 hour**

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 11 will be assessed for this course.

**OUTL 265. Outdoor Leadership Topics 1-3 hours**

Prerequisite: OUTL 136 or permission of the instructor. Junior or senior standing for OUTL 465.

Selected topics in outdoor education curriculum, skills, counseling, environmental study, etc. May be repeated. Maximum of six (6) hours. 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 16 will be assessed for this course.

**OUTL 330. Wilderness Emergency Medical Technician 3 hours**

Prerequisites: 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 335. Challenge Course Management 3 hours**

Prerequisite: 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**

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. This course leads to American Canoe Association (ACA) Swift Water Rescue and Advanced Swift Water Rescue certifications. Off-campus labs are required. Participants must be competent swimmers. Lab fee 12 will be assessed for this course. Offered on a rotating basis. (Alternating years)

**OUTL 352. Vertical Caving 1 hour**

Pre- or Co-requisite: OUTL 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. Lab fee 12 will be assessed for this course. (Alternating years)

**OUTL 354. Rope Technician I 2 hours**

Prerequisite: OUTL 145 or permission of instructor.

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. Leads to NFPA 1006 Rope Technician certification. An extended three day field trip will be required for this class. Lab fee 12 will be assessed for this class. (Alternating years)

**OUTL 356. Outdoor Leadership—Field Experience 3 hours**

Prerequisite: Five (5) hours of 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: Junior or senior standing.

This course is designed to present an overview of outdoor education issues and contemporary problems.

**OUTL 420. Natural and Cultural Interpretation 3 hours**

The course will emphasize the development of living and natural history programs for use in parks, nature centers, and other outdoor facilities. Included in this course are twenty (20) hours of active learning experience, which may include field experiences outside the classroom. (Alternating even years)

**OUTL 430. Adventure Leadership 3 hours**

Prerequisites: Minimum 12 OUTL credit; OUTL 153 or 319.

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 12 will be assessed for this course. (Alternating years)

**OUTL 465. Outdoor Leadership Topics 1-3 hours**

Prerequisite: OUTL 136 or permission of the instructor. Junior or senior standing for OUTL 465.

See OUTL 265 for course description.

**OUTL 492. Outdoor Leadership Internship 10 hours**

Note: Senior status as an Outdoor Leadership major required.

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.

**OUTL 495. Directed Study 1-3 hours**

See OUTL 295 for course description.

## General Education Activity Classes

PEAC courses have optional pass/fail grades available, excluding PEAC 225.

### **PEAC 121. Walking/Jogging (G-3) 1 hour**

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, folks walks, race walking, logs and motivation. A wide variety for activities will be part of this course. Offered on a rotating basis. A pedometer will be required.

### **PEAC 123. Volleyball (G-3) 1 hour**

Development of the skills of passing, setting, serving, and spiking necessary in participation in power volleyball. (Fall)

### **PEAC 131. Badminton (G-3) 1 hour**

Instruction includes strokes, rules, and playing situations plus physical conditioning for badminton. Lab fee 3 will be assessed for this course. (Winter)

### **PEAC 133. Racquetball (G-3) 1 hour**

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 racquetballs.

### **PEAC 134. Basic Tennis (G-3) 1 hour**

Emphasis in basic tennis skills including the forehand, backhand, and serve. Each student will need to purchase their own racquet and tennis balls. (Fall)

### **PEAC 136. Basic Golf (G-3) 1 hour**

A basic course for the beginning golfer. Transportation needed Lab fee 4 will be assessed for this course.

### **PEAC 137. Cycling (G-3) 1 hour**

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.

### **PEAC 139. Advanced Tennis (G-3) 1 hour**

For the advanced player. Emphasis is given to the advanced serve, volley, lobs, advanced ground strokes and playing strategy. Admission to class must be approved by instructor. (Fall)

### **PEAC 140. Weight Training (G-3) 1 hour**

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 141. Fly-Fishing (G-3) 1 hour**

This course is cross-listed with OUTL 141, School of Education and Psychology. A student may receive credit for this course from only one program.

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. Offered on a rotating basis. Minimal fees may be charged for transportation. Lab fee 8 will be assessed for this course.

### **PEAC 142. Canoeing (G-3) 1 hour**

This course is cross-listed with OUTL 142, School of Education and Psychology. A student may receive credit for this course from only one program.

See OUTL 142 for course description.

**PEAC 143. Basic Tumbling (G-3) 1 hour**

Mat tumbling leading to gymnastic free-exercise routines in conjunction with acrosport exposure.

**PEAC 145. Basic Rock Climbing (G-3) 1 hour**

This course is cross-listed with OUTL 145, School of Education and Psychology. A student may receive credit for this course from only one program.

See OUTL 145 for course description.

**PEAC 146. White Water Rafting Guide (G-3) 1 hour**

This course is cross-listed with OUTL 146, School of Education and Psychology. A student may receive credit for this course from only one program.

See OUTL 146 for course description.

**PEAC 151. Scuba Diving (G-3) 1 hour**

This course is cross-listed with OUTL 151, School of Education and Psychology. A student may receive credit for this course from only one program.

Leads to basic certification by N.A.S.D.S. or N.A.U.I. Lab fees and check out dive expenses will be charged in addition to tuition. You must have your own mask, snorkel, and fins. This course cannot be added late. Lab fee 15 will be assessed for this course with additional trip expenses charged after the check out dive.

**PEAC 152. Caving (G-3) 1 hour**

This course is cross-listed with OUTL 152, School of Education and Psychology. A student may receive credit for this course from only one program.

See OUTL 152 for course description.

**PEAC 153. Basic Swimming (G-3) 1 hour**

Development of beginning and intermediate swimming skills coupled with aquatic safety principles.

**PEAC 155. Basic Kayaking (G-3) 1 hour**

This course is cross-listed with OUTL 155, School of Education and Psychology. A student may receive credit for this course from only one program.

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. Offered on a rotating basis. Lab fee 6 will be assessed for this course.

**PEAC 160. Snow Skiing (G-3) 1 hour**

A course that involves a spring break trip to Colorado. Tuition does not cover trip expenses. Lab fee 20 and additional expenses may be required.

**PEAC 212. Backpacking (G-3) 1 hour**

This course is cross-listed with OUTL 212, School of Education and Psychology. A student may receive credit for this course from only one program.

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. Offered on a rotating basis. Lab fee 6 will be assessed for this course.

**PEAC 214. Mountain Biking 1 hour**

This course is cross-listed with OUTL 214, School of Education and Psychology. A student may receive credit for this course from only one program.

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.



**PEAC 200. Gym Climbing (G-3) 1 hour**

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.

**PEAC 220. Advanced Rock Climbing (G-3) 1 hour**

This course is cross-listed with OUTL 220, School of Physical Education, Health and Wellness. A student may receive credit for this course from only one program.

See OUTL 220 for course description.

**PEAC 230. Women's Fitness (G-3) 1 hour**

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 225. Fitness for Life (G-3) 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 235. Personal Conditioning (G-3) 1 hour**

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 238. Advanced Golf (G-3) 1 hour**

Prerequisite: PEAC 136.

This course focuses on the short game (putting and chipping), specialty shots (fade and draw), and course management.

Advanced students must have:

- Own clubs
- Successfully completed Basic Golf
- Transportation to golf courses
- Fees required

**PEAC 243. Gymnastics Team (Gym-Masters) (G-3) 1 hour**

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. This course may be repeated for credit. Due to program conflicts, second semester Gym-Masters will not enroll in classes that meet before 1:00 p.m. on Tuesdays and Thursdays.

**PEAC 254. Lifeguarding (G-3) 1 hour**

Prerequisite: 500 yards continuous swim.

This course is cross-listed with RECR 254. A student may receive credit for this course from only one program.

Leads to Red Cross Life Guarding certification, First Aid and CPR certification. (Fall, Winter, Summer)

**PEAC 255. Water Safety Instructor (G-3) 1 hour**

Prerequisite: PEAC 254 or equivalent. Must meet stroke performance standards for American Red Cross Swim Level 5.

This course is cross-listed with RECR 255. A student may receive credit for this course from only one program.

Leads to Red Cross Water Safety Instructor certification.

**PEAC 261. Introduction to Recreation (G-3) 1 hour**

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 262. Introduction to Camping (G-3) 1 hour**

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 weekend camping trip with a hike is required. Lab Fee 5 will be assessed for this course.

**PEAC 265. Topics in Activity 1-3 hours**

Topics selected from activities not covered in other courses. This course may be repeated for credit.

**Physical Education Theory****PETH 113. ProAct – Racquetball 1 hour**

Development of professional skills, including performance and teaching techniques for racquetball. For majors and minors only.

**PETH 114. ProAct – Softball 1 hour**

Development of professional skills including performance and teaching techniques for softball. For majors and minors only.

**PETH 115. ProAct – Flagball 1 hour**

Development of professional skills including performance and teaching techniques for flagball. For majors and minors only.

**PETH 116. ProAct – Volleyball 1 hour**

Development of professional skills including performance and teaching techniques for volleyball. For majors and minors only.

**PETH 117. ProAct – Basketball 1 hour**

Development of professional skills including performance and teaching techniques for basketball. For majors and minors only.

**PETH 119. ProAct – Soccer 1 hour**

Development of professional skills including performance and teaching techniques for soccer. For majors and minors only.

**PETH 210. Aerobics Instructor Trainer 2 hours**

Prerequisite: 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 9 will be addressed for this course.

**PETH 214. ProAct – Tennis 1 hour**

Development of professional skills including performance and teaching techniques for tennis. For HPER majors and minors only.

**PETH 215. ProAct – Golf 1 hour**

Development of professional skills including performance and teaching techniques for golf. For HPER majors and minors only.

**PETH 216. ProAct – Fitness for Life 1 hour**

Development of professional skills including performance and teaching techniques for conditioning. For HPER majors and minors only.

**PETH 217. ProAct – Badminton 1 hour**

Development of professional skills including performance and teaching techniques for badminton. For HPER majors and minors only.

**PETH 218. ProAct – Track and Field 1 hour**

Development of professional skills including performance and teaching techniques for track and field. For HPER majors and minors only.

- PETH 219. ProAct – Gymnastics 1 hour**  
Development of professional skills including performance and teaching techniques for gymnastics. For HPER 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 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**  
Prerequisites: BIOL 101-102 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. (Fall)
- PETH 315. Physiology of Exercise (W) 4 hours**  
Prerequisites: BIOL 101-102 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. (Winter)
- PETH 325. Personal Trainer 2 hours**  
Prerequisite: 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 9 will be addressed for this course. (Fall)
- PETH 363. An Introduction to Measurements and Research of 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**  
An integrated study of the principles and administrative concepts of Physical Education and Recreation with emphasis in management needs and skills. (Winter)
- 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 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. (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: 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 PE Methods 2 hours**

A course of study designed to acquaint students with the unique aspects of physical education and the adolescent. Special activities include teaching and observation in an elementary school. (Fall, Summer)

**PETH 474. Psychology and Sociology of Sports 2 hours**

An exploration of sports and their involving 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 (G-1) 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: 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: 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 1-3hours**

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 (G-1) 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.

**PHTO 320. Digital Photography 3 hours**

Prerequisite: 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.



**PHYS 295. Directed Study 1-3 hours**

Prerequisite: 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: 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 co-basis during the Summer.)

**PHYS 305. Biophysics 3 hours**

Prerequisites: PHYS 211, 212, 215, 216; MATH 181; 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**

Prerequisites: PHYS 211-212; MATH 181, 182.

The origins of modern physics, quantum theory, the theory of relativity, nuclear physics. Three hours lecture each week. Laboratory experience is available in PHYS 325. (Fall)

**PHYS 313. Physical Optics 3 hours**

Prerequisites: PHYS 211-212, 310; MATH 182.

Refraction, reflection, interference, and absorption 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 315. Spectroscopy 3 hours**

Prerequisites: PHYS 211-212, 310; MATH 182.

Interpretation of spectral line and band wavelengths, profiles, and intensities in terms of stars' composition, temperature, pressure, motions. Design of laboratory experiments to obtain atomic and molecular constants. Systematics of atomic and molecular data. Laboratory experience is available in PHYS 497. (Fall, even years)

**PHYS 316. Mathematics of Physics 3 hours**

Prerequisites: PHYS 213-214, 310; MATH 315.

See MATH 316 for course description.

**PHYS 317. Issues in Physical Science and Religion (E-3) 3 hours**

Prerequisite: 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**

Prerequisites: PHYS 213-214, 310.

Laboratory experiments pertinent to areas of physics except electricity and magnetism. Meets once per week.

**PHYS 326. Advanced Physics Laboratory II 1 hour**

Prerequisites: PHYS 213-214, 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**

Prerequisites: PHYS 213-214, 310; MATH 182.

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. This class is not open to students who have taken CHEM 411. Laboratory experience is available in PHYS 497. (Fall, even years)

**PHYS 412. Quantum Mechanics 3 hours**

Prerequisites: PHYS 215, 216, 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; electron spin and the Pauli requirement for antisymmetric wave functions, with applications to states of light atoms; variation techniques for small atoms and molecules, Hueckel and LCAO methods. This class is not open to students who have taken CHEM 415. (Winter, odd years)

**PHYS 413. Analytic Mechanics 3 hours**

Prerequisites: PHYS 215, 216, 310; MATH 182, 218, 315 (MATH 316, 317, 318, 319, 411-412 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 414-415. Electrodynamics 3,3 hours**

Prerequisites: PHYS 215, 216, 310; MATH 182, 218, 315, (316, 317, 318, 319, 411-412 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; Winter, odd years)

**PHYS 418-419. Advanced Quantum Mechanics 3,3 hours**

Prerequisites: PHYS 215, 216, 310, 412; MATH 182, 218, 315, (316, 317, 318, 319, 411-412 desirable)

The structure of quantum mechanics; review of the Thomson, Bohr, and Fermi-Thomas models; operator methods; operators, matrices, and spin; time-independent perturbation theory; corrections to the hydrogen-atom treatment; other atoms and the periodic table; emission and absorption of radiation from atoms; collision theory; elementary particles and their symmetries; group dynamics approach to particle classification. (Fall, odd years; 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: 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 295/495 and 297/497 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: Consent of instructor.

See PHYS 295 for course description.

**PHYS 497. Undergraduate Research in Physics 1-2 hours**

Prerequisite: Permission of instructor.

See PHYS 297 for course description.

**Political Science****PLSC 224. Principles of Macroeconomics (C-2) 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 (C-2) 3 hours**

An examination of the operation of the executive, legislative, and judicial branches of government of the national, state, and local levels.

**PLSC 291. Political Science Practicum 3-6 hours**

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 292. Political Science Internship 9-12 hours**

Supervised work experience in a state legislative, congressional, or other governmental office. A minimum of 100 clock hours of work experience is required for each semester hour of credit.

**PLSC 295. Directed Study (C-2) 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 (C-2) (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 (C-2) (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 (C-2) (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 (C-2) (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 (C-2) 3 hours**

See HIST 465 for course description.



**PLSC 471. Classics of Western Thought I (C-2) (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 (C-2) (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**

See PLSC 291 for course description.

**PLSC 492. Political Science Internship 9-12 hours**

See PLSC 292 for course description.

**PLSC 495. Directed Study (C-2) (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: 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.

**PREL 368. Fund Development 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: Consent of instructor before arranging for practicum.

See PREL 291 for course description.

**PREL 465. Topics in Public Relations 1-3 hours**  
See PREL 265 for course description.

**PREL 482. The Public Relations Campaign 3 hours**  
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**  
Prerequisites: JOUR 205, 208.  
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**  
Prerequisites: 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.

**PREL 498. American Humanics Internship 3 hours**  
Students work in the field of nonprofit organizations to obtain on-the-job experience, preferably during an eight to twelve week period during 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.

## Psychology

**PSYC 101. Psychology of Personal and Social Adjustment (F-1) 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 (F-1) 3 hours**  
A beginning course in the basic principles and concepts of psychology. Special attention is given to provide 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 (F-1) 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. This course requires fifteen (15) hours of community service.

**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.

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. Lab fee 7 will be assessed for this course. (Fall)

**PSYC 224. Social Psychology (F-1) 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: 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, problem solving, and artificial intelligence are addressed. (Fall)

**PSYC 231. Multicultural Relations (F-1) 3 hours**

This course is cross-listed with SOCI 230 and SOCW 230. A student may receive credit for this course from only one program.

See SOCI 230 for course description.

**PSYC 233. Human Sexuality (F-1 or F-2) 3 hours**

This course is cross-listed with SOCI 233 and SOCW 233. A student may receive credit for this course from only one program.

See SOCI 233 for course description. (Credit not permitted if SOCI 233 has been taken.)

**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. (Winter)

**PSYC 249. Death and Dying (F-1) 2 hours**

This course is cross-listed with SOCI 249/449, SOCW 249 and NRSO 449. A student may receive credit for this course from only one program.

See SOCI 249/449 for course description.

**PSYC 253. Industrial/Organizational Psychology 3 hours**

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. (Winter, even years)

**PSYC 295. Directed Study 1-3 hours**

Prerequisite: 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 advisor 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: PSYC 122 or PSYC 128.

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. Emphasis is placed on 'doing research' in psychology. 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: PSYC 122 or PSYC 128.

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. Included in this course are active learning experiences.

**PSYC 326. Physiological Psychology 3 hours**

Prerequisite: PSYC 122.

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 two-hour 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 is cross-listed with EDUC 336. A student may receive credit for this course from only one program.

See EDUC 336 for course description.

**PSYC 346. Introduction to Personality Theories 3 hours**

Prerequisite: PSYC 122, 128.

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.

**PSYC 349. Aging and Society (F-1) (W) 3 hours**

This course is cross-listed with SOCI 349 and SOCW 349. A student may receive credit for this course from only one program.

See SOCI 349 for course description.

**PSYC 357. Psychological Testing 3 hours**

Prerequisites: PSYC 122 and PSYC 297 or Math 215 or BUAD 221.

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 (W) 3 hours**

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.

**PSYC 384. Experimental Psychology 3 hours**

Prerequisite: PSYC 297.

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. (Winter, odd years)

**PSYC 390. Health Psychology 3 hours**

Prerequisite: PSYC 122.

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 416. History and Systems of Psychology (W) 3 hours**

Prerequisite: PSYC 122 and senior standing for BA/BS in Psychology.

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. (Winter)

**PSYC 422. Issues in Adolescence 3 hours**

This course is cross-listed with EDUC 423. A student may receive credit for this course from only one program

Prerequisite: PSYC 122, PSYC 128 or EDUC 220.

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)

**PSYC 455. Psychology of Young Adulthood 3 hours**

The determinants and implications of behavioral characteristics and developmental patterns during your adulthood will be studied. Content will include the psychological and social dynamics underlying the crises and developmental issues specific to young adulthood in modern society. (Fall)

**PSYC 460. Group Processes 3 hours**

Prerequisite: PSYC 377.

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, and church settings. (Winter, odd years)

**PSYC 465. Topics in Psychology 1-3 hours**

Prerequisite: Psychology major with junior or senior standing.

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: PSYC 377.

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: Psychology major or minor with senior standing.

This course is designed to present an overview of selected psychological issues and contemporary problems.

**PSYC 491. Psychology Practicum 1-3 hours**

Prerequisite: Psychology major with junior or senior standing and approval of the instructor.

Supervised volunteer/work experience in related fields of psychology. At least forty (40) 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: Approval of instructor.  
See PSYC 295 for course description.

**PSYC 497. Research Design and Statistics II (W) 3 hours**

Prerequisite: PSYC 297 or MATH 215, either with a minimum grade of C-.  
This course is the second of the two-part series, Research Design and Statistics. 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 4 will be assessed for this course. (Winter)

**Recreation****RECR 210. Aerobics Instructor Trainer 2 hours**

Prerequisite: 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.

**RECR 254. Lifeguarding (G-3) 1 hour**

This course is cross-listed with RECR 254. A student may receive credit for this course from only one program.  
See PEAC 254 for course description.

**RECR 255. Water Safety Instructor (G-3) 1 hour**

This course is cross-listed with PEAC 255. A student may receive credit for this course from only one program.  
See PEAC 255 for course description.

**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, 269. Officiating Sports Analysis 2,2 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.

**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 advisor.

**Biblical Studies****RELB 125. Life and Teachings of Jesus (B-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 (B-1) 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 237. Archaeology and the Old Testament (B-1) 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 (B-1) 3 hours**

Prerequisite: Six hours of religion courses.

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 (B-1) 3 hours**

Prerequisite: Six hours of religion courses.

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 (B-1) 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 (B-1) 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 295. Directed Study (B-1) 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 340. Middle East Study Tour (B-1) 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 (W) (B-1) 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 (B-1) 3 hours**

A study of the prophecies and symbolisms 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 (B-1) 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 (B-1) 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 (B-1) 1-6 hours**

See RELB 255 for course description.

**RELB 465. Topics in Biblical Studies (B-1) 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 495. Directed Study (B-1) 1-3 hours**  
See RELB 295 for course description.

**RELB 497. Archaeological Method and Theory (B-1) 3 hours**  
Prerequisites: RELB 237, 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 181-182. Biblical Hebrew I, II (D-1) 3,3 hours**  
A foundation course in the grammar, syntax, and lexicography of classical Biblical Hebrew, with an emphasis on reading skills. Laboratory work required.

**RELL 191-192. New Testament Greek I, II (D-1) 3,3 hours**  
A foundational study of the grammar, syntax, and vocabulary of the *koine* Greek of the New Testament. The student will read and translate selected New Testament passages in preparation for doing exegesis of the New Testament text.

**RELL 221. Introduction to Biblical Exegesis 2 hours**  
Prerequisite: One semester of biblical language.

An introduction to biblical exegesis (the application of principles of interpretation) to passages of the Bible representing the various genres of the Old and New Testaments. This course will acquaint the student with the presuppositions which lie beneath various hermeneutical approaches to the text, with guidelines for the steps in the interpretation of the text. Opportunity will be given for involvement in the process of biblical exegesis. (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**  
Prerequisites: RELL 181, 182, 221.

Application of the principles of exegesis to the text of the Hebrew Bible, with particular emphasis on the contribution of Hebrew lexicography, grammar, syntax, and style to the understanding of the text. The student will be expected to analyze the text of assigned passages and to prepare brief exegetical papers and sermons based on the Hebrew text of the Old Testament. (Fall)

**RELL 331. Intermediate Greek 3 hours**  
Prerequisites: RELL 191, 192, 221.

An intermediate course which applies the principles of *koine* Greek grammar and syntax to the exegesis of selected passages from the Greek New Testament. Emphasis will be placed upon the significance of the results of exegesis for preaching the text. (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**

Prerequisites: 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 6 will be assessed for the IDAK career evaluation.

### **REL 240. World Missions (B-3) 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 (B-3) 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 3 hours**

Prerequisite: REL 251.

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 264. Christian Witnessing (B-3) 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 270. Interpersonal Ministry 2 hours**

Prerequisites: 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 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 RELP 466 Public Evangelism, or other General Education requirements. (Pass/Fail).

### **REL 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)

**REL 321. Introduction to Biblical Preaching 2 hours**

Prerequisites: COMM 135; REL 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)

**REL 322. Intermediate Biblical Preaching 2 hours**

Prerequisite: REL 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)

**REL 340. World Missions (B-3) 3 hours**

See REL 240 for course description.

**REL 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.

**REL 361. Personal Evangelism I (B-3) 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. (Fall)

**REL 362. Personal Evangelism II (B-3) 2 hours**

Prerequisite: REL 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)

**REL 391. Practicum 1-3 hours**

See RELP 291 for course description.

**REL 401. Fundamentals of Biblical Preaching 3 hours**

Prerequisite: 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)

**REL 405. Evangelistic Preaching 1 hour**

Prerequisites: RELP 321 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)

**REL 423. Advanced Biblical Preaching 2 hours**

Prerequisites: RELP 321, 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 sermonic series. Sermons are preached and analyzed in a peer-review setting. (Fall)

**RELP 450. Church Ministry I (B-3) 3 hours**

Prerequisites: RELP 150, 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**

Prerequisites: RELP 150, 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**

Prerequisites: RELP 362, 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 468. Health Evangelism (B-3) 3 hours**

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.

**RELP 495. Directed Study 1-3 hours**

See RELP 495 for course description.

**Religion and Theology****RELT 138. Adventist Heritage (B-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 (B-2) 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 15 will be assessed for this course. (Fall Break)

**RELT 175. Christian Spirituality I (B-2) 2 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 176. Christian Spirituality II (B-2) 1 hour**

Prerequisite: RELT 175.

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 201. Biblical Principles for Daily Living (B-2) 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 (B-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 (B-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 295. Directed Study (B-2) 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 (B-2) 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 373. Christian Ethics (B-2) 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) (B-2) 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 (B-2) 2 hours**

Prerequisites: 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) (B-2) 3 hours**

Prerequisite: Junior or senior status only.

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. (Fall, Winter, Summer as needed)

**RELT 465. Topics in Theological Studies (B-2) 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 467. Christian Philosophy and Worldviews (W) (B-2) 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 (B-2) 3 hours**

Prerequisite: 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) (B-2) 3 hours**

Prerequisite: 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 (B-2) 1-3 hours**

See RELT 295 for course description.

**Russian****RUSS 101. Elementary Russian I (D-1) 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 (D-1) 3 hours**

Prerequisite: 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 (D-1) 3 hours**

Prerequisite: 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 (D-1) 3 hours**

Prerequisite: RUSS 207 or approval of the department.

This course continues an emphasis 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 (F-1) 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. Emphasis is placed on the study of social groups including the family, its history and current place in society. (Fall, Winter, Summer)

**SOCI 150. Cultural Anthropology (F-1) 3 hours**

This course is cross-listed with 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 201. Parenting (F-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)

**SOCI 224. Social Psychology (F-1) 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 225. Marriage and the Family (F-2) 3 hours**

This course is cross-listed with SOCW 225. A student may receive credit for this course from only one program.

A course in intimate human relationships, including the place of the family in society and a Christ-centered approach to marital and familial issues.

**SOCI 230. Multicultural Relations (F-1) 3 hours**

This course is cross-listed with 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 (F-1 or F-2) 3 hours**

This course is cross-listed with 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)

**SOCI 245. Appalachian Studies 2 hours**

The purpose of this course is to provide a general knowledge of Appalachian culture. Study will be given to current and past characteristics of the region. Lifestyles, subcultures, legends, myths, and stereotypes will be studied. Lab fee 1 will be assessed for this course. (Winter)

**SOCI 249. Death and Dying (F-1) 2 hours**

This course is cross-listed with SOCW 249, PSYC 249 and NRSG 449. 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, and bereavement support strategies that may influence attitudes towards death and dying for a variety of 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 295. Directed Study 1-3 hours**

Prerequisite: 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. Study Tour (F-1) 1-6 hours**

The Social Work and Family Studies Department 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. The fall trip to New York City focuses on ethnicity, social problems, urban change, and social agencies (1 or 2 hours). The European tour focuses on a comparison of cultures, current issues, and social policies (6 hours). Fees are assessed to cover the expenses of each tour. Lab fee 19 will be assessed for this course.

**SOCI 349. Aging and Society (F-1) (W) 3 hours**

This course is cross-listed with PSYC 349 and SOCW 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)

**SOCI 356. Natives and Strangers (F-1) (W) 3 hours**

This course is cross-listed with HIST 356. A student may receive credit for this course from only one program.

See HIST 356 for course description.

**SOCI 360. Family Life Education 3 hours**

This course is cross-listed with 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)

**SOCI 365. Family Relations (F-2) 3 hours**

This course is cross-listed with SOCW 365. A student may receive credit for this course 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)

**SOCI 374. Criminology (F-1) 3 hours**

This course emphasizes the scientific study of crime as a social phenomenon, of criminals, and of penal treatment. The relationship of law and crime to other trends in the social order. Research in prevention and treatment of crime. (Fall, odd years)

**SOCI 449. Death and Dying (F-1) 2 hours**

This course is cross-listed with SOCW 249, PSYC 249 and NRSG 449. A student may receive credit for this course from only one program.

See SOCI 249 for course description.

**SOCI 465. Topics in Sociology 1-3 hours**

See SOCI 265 for course description.

**SOCI 491. Family Studies Practicum 1-3 hours**

Prerequisite: SOCI 360

Supervised volunteer/work experience in related fields of family studies. 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.

**SOCI 495. Directed Study 1-3 hours**

Prerequisite: SOCI 125 or permission of the instructor.

See SOCI 295 for course description.

**SOCI 496. Study Tour (F-1) 1-6 hours**

See SOCI 296 for course description. Lab fee 19 will be assessed for this course.

**Social Work****SOCW 150. Cultural Anthropology (F-1) 3 hours**

This course is cross-listed with SOCI 150. A student may receive credit for this course from only one program.

See SOCI 150 for course description.

**SOCW 201. Parenting (F-2) 3 hours**

This course is cross-listed with SOCI 201. A student may receive credit for this course from only one program.

See SOCI 201 for course description.

**SOCW 211. Introduction to Social Work (F-1) 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 (F-1) 3 hours**

Prerequisite: 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 (F-2) 3 hours**

This course is cross-listed with SOCI 225. A student may receive credit for this course from only one program.

See SOCI 225 for course description.

**SOCW 230. Multicultural Relations (F-1) 3 hours**

This course is cross-listed with SOCI 230 and PSYC 231. A student may receive credit for this course from only one program.

See SOCI 230 for course description.



**SOCW 233. Human Sexuality (F-1 or F-2) 3 hours**

This course is cross-listed with SOCI 233 and PSYC 233. A student may receive credit for this course from only one program.

See SOCI 233 for course description.

**SOCW 249. Death and Dying (F-1) 2 hours**

This course is cross-listed with SOCW 249/449, PSYC 249, and NRSNG 449. A student may receive credit for this course from only one program.

See SOCI 249 for course description.

**SOCW 265. Topics in Social Work (F-1) 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 295. Directed Study 1-3 hours**

Prerequisite: 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. Study Tour (F-1) 1-6 hours**

The Social Work and Family Studies Department 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. The fall trip to New York City focuses on ethnicity, social problems, urban change, and social agencies (1 or 2 hours). The European tour focuses on a comparison of cultures, current issues, and social policies (6 hours). Fees are assessed to cover the expenses of each tour. Lab fee 19 will be assessed for this course.

**SOCW 310. Social Work Practice I (W) 4 hours**

Prerequisites: BIOL 103; SOCW 211, 212, 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**

Prerequisites: BIOL 103; SOCI 125; PSYC 122; SOCW 211.

Co-requisite: 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: 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 315. Social Work Practice II (W) 3 hours**

Prerequisites: SOCW 310.

In this second semester of a three-semester practice sequence, the primary focus is on working with small groups and families, the mezzo dimension of social work practice. Based on group theory and processes, students facilitate psycho-educational, task, and support groups. Social Work practice courses can only be taken by non-social work majors if ALL prerequisites have been completed. (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: 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 349. Aging and Society (W) (F-1) 3 hours**

This course is cross-listed with SOCI 349 and PSYC 349. A student may receive credit for this course from only one program.

See SOCI 349 for course description.

**SOCW 360. Family Life Education 3 hours**

This course is cross-listed with SOCI 360. A student may receive credit for this course from only one program.

See SOCI 360 for course description.

**SOCW 365. Family Relations (F-2) 3 hours**

This course is cross-listed with SOCI 365. A student may receive credit for this course from only one program.

See SOCI 365 for course description.

**SOCW 391. Junior Field Practicum 1-3 hours**

Co-requisite: SOCW 315.

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 435.

**SOCW 433. Social Work Practice III 3 hours**

Prerequisite: SOCW 315.

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. (Fall)

**SOCW 434. Social Welfare Issues and Policies 3 hours**

Prerequisites: MATH 215; SOCW 212, 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 435. Social Work Practicum I 4 hours**

Prerequisite: SOCW 315. Co-requisite: 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 system, the student comprehends agency structures, functions, and programs. A minimum of 200 clock hours will be spent working in an agency setting for each four hours of course work. Social Work practicum courses can be taken ONLY by social work majors. (Fall)

**SOCW 436. Social Work Practicum II 4 hours**

Prerequisites: MATH 215; SOCW 435, 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 social work majors. (Winter)

**SOCW 441. Integrative Seminar I 1 hour**

Prerequisites: SOCW 315, 497. Co-requisites: SOCW 433, 435, 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: SOCW 441, 497. Co-requisites: SOCW 433, 436.

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 449. Death and Dying (F-1) 2 hours**

This course is cross-listed with SOCW 249/449, PSYC 249, and NRSNG 449. A student may receive credit for this course from only one program.

See SOCI 249 for course description.

**SOCW 465. Topics in Social Work (F-1) 1-3 hours**

See SOCW 265 for course description.

**SOCW 495. Directed Study 1-3 hours**  
 Prerequisite: SOCW 212.  
 See SOCW 295 for course description.

**SOCW 496. Study Tour (F-1) 1-6 hours**  
 See SOCW 296 for course description. Lab fee 19 will be assessed for this course.

**SOCW 497. Research Methods (W) 3 hours**  
 Prerequisites: 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 (D-1) 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. Lab fee 3 will be assessed for this course. (Fall)

**SPAN 102. Elementary Spanish II (D-1) 3 hours**  
 Prerequisite: SPAN 101 or score a minimum of 296 on placement examination or approval of the department. (Winter)

This course is a continuation on 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 (D-1) 3 hours**  
 Prerequisite: 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 B grade. For information on this examination, students should refer to SAU Catalog and/or Modern Languages faculty for details. Lab fee 3 will be assessed for this course. (Fall)

**SPAN 208. Intermediate Spanish II (D-1) 3 hours**  
 Prerequisite: 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 B grade. For information on this examination, students should refer to the SAU Catalog and/or Modern Languages faculty for details. Lab fee 3 will be assessed for this course. (Winter)

**SPAN 243. Composition and Conversation (D-1) 3 hours**  
 Prerequisite: 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 3 hours**

Prerequisite: 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 (D-2) (W) 3 hours**

Prerequisite: 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 (D-2) (W) 3 hours**

Prerequisite: 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**

Prerequisites: 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 literary works chosen. This course will be conducted entirely in Spanish and will focus on active speaking, reading, text analysis, and writing.

**SPAN 454. Latino Literature (D-2) (W) 3 hours**

This course is cross-listed with ELIT 454. A student may receive credit for this course from only one program.

Prerequisite: SPAN 216 and MDLG 230 or approval of the department.

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 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 final grade for this course.

**SPAN 495. Directed Study 1-3 hours**

See SPAN 295 for course description.

## Technology

- TECH 104. Field Engineering (G-2) 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 114. Oxy-Acetylene Welding (G-2) 1 hour**  
Gas welding and brazing of sheet metal in preparation for typical body shop welding jobs. Personal goggles 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 (G-2) 2 hours**  
A class designed to give basic understanding of arc welding processes. Emphasis will be given to MIG, TIG, Heliarc, as well as conventional stick welding. Each student must purchase safety glasses and welding gloves. Lab fee 5 will be assessed for this course. (Fall)
- TECH 117. Industrial Safety (G-2) 2 hours**  
The content of this course deals with safety of hand tools, work practices, and the supervisor's responsibilities of recognizing and avoiding safety hazards. The student will earn the 30-hour OSHA Construction Safety Certificate. Lab fee 2 will be assessed for this course.
- TECH 122. Woodworking for Artists (G-2) 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 124. Plumbing (G-2) 2 hours**  
Instruction in code requirements, procedures in residential plumbing, waste, maintenance, proper methods of sewage disposal using soil pipe and plastic, water lines, using copper, galvanized pipe and state-of-the-art plastics. One period lecture and three periods laboratory each week. Lab fee 4 will be assessed for this course.
- TECH 130. House Wiring (G-2) 2 hours**  
Instruction in the National Electric Code, basic electrical principles, complete instruction and practice in residential wiring, including electric heating and telecommunications. Some industrial wiring techniques will also be included. One period lecture, six periods laboratory each week. Lab fee 5 will be assessed for this course.
- TECH 148. Methods and Materials of Construction (G-2) 3 hours**  
This course is designed to give the students an understanding of the methods, materials, and practices used in all phases of residential and commercial construction to include: foundations, framing, electrical, heating and plumbing, roofing, interior finishing and trim, and cabinetry. Regularly scheduled visits will be made to construction sites to see progress and practice used in industry. Lab fee 1 will be assessed for this course.
- TECH 149. Introduction to Mechanical Drawing and CADD (G-2) 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 (G-2) 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 (G-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. Lab fee 2 will be assessed for this course. Open to all students.
- TECH 153. Masonry and Foundations (G-2) 2 hours**  
 A fundamental course in concrete block and brick laying, footings, and foundations for residential construction. One period lecture and six periods laboratory each week. Lab fee 3 will be assessed for this course.
- TECH 154. Woodworking (G-2) 3 hours**  
 A study of hand and machine tools, joinery, and proper methods of furniture construction. 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. Interiors, Finish and Trim 2 hours**  
 The course will cover the principles and practice of hanging, taping, and finishing sheetrock, interior trim, floor coverings, paint, cabinet installation, and installation of insulation. One period lecture, four periods laboratory each week. Lab fee 3 will be assessed for this course.
- TECH 161. Carpentry (G-2) 4 hours**  
 The principles of framing walls, roof systems, floor systems, door and window installation as well as trim finishes will be taught. Lab fee 3 will be assessed for this course.
- TECH 164. Automotive Maintenance (G-2) 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. (Fall)
- TECH 165. HVAC (G-2) 2 hours**  
 Installation principles will be taught along with sizing and relationship of building codes to layout. Lab fee 3 will be assessed for this course.
- TECH 166. Auto Electrical Systems (G-2) 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. (Fall)
- TECH 167. Suspension, Steering and Alignment (G-2) 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 (G-2) 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 (G-2) 3 hours**  
 A study of brake system operations, troubleshooting, and repair. Conventional and antilock brake systems will be taught.

- TECH 175. Engine Rebuilding and Machining (G-2) 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 (G-2) 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 (G-2) 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 (G-2) 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 (G-2) 3 hours**  
Prerequisite: ARTG 238, BUAD 245, CPT 245, 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 (A-4) 3 hours**  
Prerequisite: TECH 149 or 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 252. Building Codes (G-2) 2 hours**  
State and local building codes that relate to residential and light commercial projects will be taught. They will include but not be limited to: beam span, electrical, plumbing, heating, and air conditioning minimums.
- TECH 254. Furniture Design and Construction 3 hours**  
Prerequisite: 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 (G-2) 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 (G-2) 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 (G-2) 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 273. Estimating and Automotive Business Practices (G-2) 1 hour**  
 Prerequisite: 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 (G-2/276) 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 (G-2) 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 (G-2) 1-3 hours**  
 Prerequisite: 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.
- 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 (G-2) 3 hours**  
 Prerequisite: 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: 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: 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: TECH 154.  
See TECH 254 for course description.
- 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: 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.

# The Registry

## Board of Trustees

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 Terry Shaw  
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 Jeff White  
 Greg Willett  
 Ed Wright\*  
 Doug Zinke

*\* Members of the Executive Board*

## University Administration

### President

Gordon Bietz, D.Min. (1997) ..... President  
 Ben Wygal, Ph.D. (2003) .....Assistant to the President

### Information Systems

Henry Hicks, M.B.A. (1998)..... Executive Director, Information Services  
 Doru Mihaescu, M.B.A. (1997)..... Associate Director, Digital Networking  
 Herdy Moniyung, M.S. (1999)..... Associate Director, Info Processing  
 Mike McClung, B.A. (1996) ..... Assistant Director, Workstation Support  
 Judy DeLay, B.A., C.P.A. (1982) ..... Senior Programmer/Analyst  
 Bryce Enevoldson, B.S. (2005) ..... Programmer/Analyst  
 Luke Miller, B.S. (2004)..... Programmer/Analyst  
 Randi Buhl, A.A. (2001)..... Network Administrator  
 Josh Rhodes, B.S. (2007)..... Network Administrator

### Institutional Research and Planning

Hollis James, Ph.D. (2003)..... Director, Institutional Research and Planning

### Academic Administration

Robert Young, Ph.D. (2007) .....Senior Vice President, Academic Administration  
 Volker Henning, Ph.D. (1989) ..... Associate Vice President, Academic Administration

**Academic Technology**

Elaine Plemons, M.A. (2007)..... Dean, Academic Technology

**Graduate Studies**

Carl Swafford, Ph.D. (1992) ..... Dean, Graduate Studies

Laurie Gauthier, M.B.A. (2008) ..... Director, Graduate Marketing and Enrollment

**Library**

Josip Mocnik, Ph.D. (2008)..... Director, Library

Genevieve Cottrell, DLitt et Phil. (2001) ..... Cataloger

Patricia Beaman, M.S.L.S. (1998) ..... Periodicals Librarian

Stanley Cottrell II, M.L.S. (2004)..... Technical Services Librarian

Frank DiMemmo, M.S. (1980) ..... Media Librarian

Daniel Maxwell, M.S.L.I.S. (2004)..... Electronic Resource Librarian

Kathryn McGrath, M.Ed. (2008)..... Reference/Instruction Librarian

Ron Miller, B.S. (1995) ..... Library Computer Support

Marge Seifert, M.S.L.S. (1999) ..... Public Services Librarian

**Online Campus**

Pegí Flynt, M.A.T. (2007)..... Director, Online Campus

**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, B.S. CFRE (2005) ..... Vice President, Advancement

Joy McKee, B.S. (2005) ..... Corporate and Foundation Relations

Sharon Robberson, B.S. (2007) ..... Major Gifts Officer

**Alumni Relations**

Evonne Crook, B.A. (1980) ..... Director, Alumni Relations

**Development**

Robert Raney, B.S. (2003) ..... Director, Development

Patrice Hieb, A.S. (1998)..... Annual Fund Coordinator

**Planned Giving**

Carolyn Liers (1996)..... Director, Planned Giving

**WSMC FM90.5**

David Brooks, B.A. (2001)..... Director, WSMC

Scott Kornblum, B.S./B.A. (2005)..... Director, Development WSMC

**Financial Administration**

Tom Verrill, M.S. (2008).....Senior Vice President, Financial Administration

Doug Froot, M.S. (2001) ...Associate Vice President, Financial Admin Budgeting & Finance

Martin Hamilton, B.A. (1998).....Associate Vice President, Financial Administration

Russell Orrison (2003) ..... Director, Purchasing

**Accounting and Financial Services**

David Huisman, B.S., C.P.A. (1993) ..... Controller

Mary Sundin, B.S. (1993).....Senior Accountant

**Campus Safety**

Kevin Penrod, B.S. (2007)..... Director, Campus Safety

**Human Resources**

Pat Coverdale, B.S., SPHR (2001) ..... Director, Human Resources

David Olson, M.B.A. (1995)..... Manager, Payroll

**Industries**

Gary Shockley (2006) ..... Manager, Village Market

Rita Wohlers (1978) ..... Manager, Campus Shop

**Risk Management**

..... Director, Risk Management

**Services**

Mark Antone, A.S. (1984)..... Director, Landscape Services

Barry Becker (1993)..... Director, Transportation Services

Sherri Schoonard (2000) ..... Director, Food Service

Betty Garver, M.S. (2000) ..... Director, University Health Center

Clair Kitson (1989) ..... Director, Plant Services

Ed Lucas (1987) ..... Director, Energy Management

Dennis Schreiner (1997)..... Director, Service

Eric Schoonard, A.S. (2002)..... Associate Director, Plant Services

Fred Turner, B.ARCH. (1996)..... Corporate Architect

**University Health Center**

Bill Rawson, B.S. (2008) ..... Physician's Assistant

**Marketing and Enrollment Services**

Vinita Sauder, Ph.D. (1983) ..... Vice President, Marketing and Enrollment Services

Marc Grundy, M.B.A. (1997).... Associate Vice President, Marketing and Enrollment Services

**Admissions and Recruitment**

Marc Grundy, M.B.A. (1997)..... Associate Vice President, Enrollment Services

Jackie James, B.A. (2003)..... Assistant Director, Admissions

Fred McClanahan, B.A./B.S. (2004) ..... Assistant Director, Admissions

Adam Brown, B.S. (2006)..... Enrollment Counselor

Nathalie Mazo, B.S. (2005)..... Enrollment Counselor

Bert Ringer, M.Div. (1996) ..... Enrollment Counselor, Florida

**Marketing and University Relations**

Ruthie Gray, M.B.A. (2000) ..... Director, Marketing and University Relations

Ingrid Skantz, B.S. (1990)..... Associate Director, Marketing and University Relations

Lori Futcher, B.A. (2005) ..... Manager, Communications

**Student Finance**

Marc Grundy, M.B.A. (1997)..... Associate Vice President, Enrollment Services

Jason Merryman, M.A. (2005) ..... Assistant Director, Student Finance

Jayne Wyche, A.S. (1980)..... Assistant Director, Student Finance

Lillian Disla, M.S. (2005)..... Student Finance Counselor

Ryan Herman, B.S. (2003)..... Student Finance Counselor

Sean Johnson, B.S. (2004) ..... Student Finance Counselor

Lily Loza, B.A. (2006)..... Student Finance Counselor

Brenda Seifert, A.S. (2001)..... Student Finance Counselor

Paula Walters, B.S. (2005)..... Student Finance Counselor

**Student Services Administration**

William Wohlers, Ph.D. (1973) ..... Vice President, Student Services  
 Kari Shultz, M.A. (1999) ..... Director, Student Life

**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  
 Cassandra Krause, M.S. (1987) ..... 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  
 Lisa Woodcock, B.A. (2004) .....Associate Dean of Women

**Student Success Center**

Jim Wampler, Psy.D. (1993) ..... Director, Student Success Center, Counseling and Testing  
 Januwoina Nixon, M.Ed (2006). ..... Director, Learning Success Services  
 Jeremy Moore, M.S. (2007) ..... Career Services Coordinator  
 Midge Phibbs, M.S. (1993) ..... Counseling Services Coordinator  
 Sheila Smith, M.A. (1997) ..... Disability Services Coordinator  
 Liane de Souza, M.S. (2003) ..... Transition Services Coordinator

**Church Pastors**

John Nixon, D.Min. (2006) ..... Senior Pastor  
 ..... Pastor of Local Missions  
 Tim Cross, M.Div. (2002) ..... Youth Pastor  
 Mike Fulbright, M.Div. (2000) ..... Young Adult Pastor/Pastoral Director of Fellowship  
 Wolf Jedamski, M. A. (1992) ..... Church Administrator/Pastor of Missions  
 Don MacLafferty, M.Div. (2002) ..... Director, Kids in Discipleship Center  
 Dúane Schoonard, M.A. (1998) ..... Pastoral Director of Spiritual Development  
 Paul Smith, M.Div. (2004) ..... Group Life Pastor

## Faculty Emeriti

Bruce Ashton, D.M.A., Professor Emeritus of Music  
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  
Joyce Cotham, M.B.Ed., Associate Professor Emerita of Office Administration  
Donald Dick, Ph.D., Professor Emeritus of Speech Communication  
John Durichek, M.A., Associate Professor Emeritus of Computing and Technology  
Mary Elam, M.A., Associate Vice President Emerita of Academic Administration  
Cyril F. W. Futch, Ed.D., Vice President Emeritus of Academic Administration  
Orlo Gilbert, D.F.A., Professor Emeritus of Music  
Loranne 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  
Marvin Robertson, Ph.D., Professor Emeritus of Music  
Cyril Roe, Ed.D., Professor Emeritus of Education  
Cecil Rolfe, Ph.D., Professor Emeritus of Business Administration  
Barbara Ruf, Ph.D., Professor Emerita of English  
Kenneth M. Spears, M.B.A., Vice President Emeritus for Finance  
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.)*

**Aaron Adams—M.F.A., Associate Professor of Visual Art and Design**

B.S., Southern Adventist University; M.F.A., Savannah Institute of Art and Design. (2002)

**Wendel Adams—B.S.I.T., Instructor of Technology**

B.S. and B.S.I.T., Andrews University. (2009)

**Pamela Ahlfeld—M.S., Associate Professor of Nursing**

B.S., Southern Adventist University; M.S., Georgia State University. (1990)

**Patricia Anderson—Ph.D., Professor of Mathematics**

B.S., Southwestern Adventist University; Ph.D., University of Texas at Arlington. (2007)

**Scot Anderson—Ph.D., Assistant 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., Assistant Professor of Social Work and Family Studies**

B.A. and B.S.W., 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.S., Andrews University; Ph.D., University of Denver. (2002)

**Desiree Batson—Ph.D., Professor of Nursing**

B.S., Southern Adventist University; M.S.N., University of Wisconsin, Madison; Ph.D., University of Tennessee, Knoxville. (1997)

**Stephen Bauer—Ph.D., Professor of Religion**

B.A., Atlantic Union College; M.Div. and Ph.D., Andrews University. (1999)

**Patricia Beaman—M.S.L.S., Associate Professor of Library Science**

B.A., La Sierra University; M.S.L.S., University of Southern California. (1999)

**John Beckett—Ph.D., Professor of Computing**

B.S. and M.B.A., Southern Adventist University; Ph.D., Nova Southeastern University. (1975)

**Robert Benge—Ph.D., 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)

**Mike Boyd—M.S., Assistant Professor of Physical Education, Health and Wellness**

B.S., Atlantic Union College; M.S., United States Sports Academy. (2007)

**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)

**Charles D. Burks—Ph.D., Professor of Psychology**

B.A. Evangel College; M.S., University of Nebraska, Omaha; Ph.D., Florida State University. (1998)

**Rachel Byrd—Ph.D., Professor of English**

B.A., Pacific Union College; M.A., Shippensburg University; Ph.D., University of Maryland. (1998)

**Michael Cafferky—Ph.D., Associate Professor of Business and Management**

B.A., Atlantic Union College; M.Div., Andrews University; M.P.H., Loma Linda University; Ph.D., Southwest University. (2003)

**Ray Carson—M.A., Associate Professor of Technology**

B.S. and M.A., Northern Arizona University. (2003)

**Ken Caviness—Ph.D., Professor of Physics**

B.S., Southern Adventist University; Ph.D., University of Massachusetts at Lowell. (1996)

**A. Laure Chamberlain—M.A., Associate Professor of Journalism and Communication**

B.A., Southern Adventist University; M.A., Syracuse University. (2004)

**Myrna Colon—Ph.D., Professor of Education**

B.A. and M.A., University of Puerto Rico; Ed.S. and Ph.D., Andrews University. (2001)

**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)

**Genevieve Cottrell—DLitt et Phil, Associate Professor of Library Sciences**

BBibl, Hons Bibl, M.Inf. and DLitt et Phil, University of South Africa. (2001)

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## 2009-10 University Committees

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- Employee Wellness Committee: Phil Garver, Chair
- Environmental Sustainability Committee: Crystal Stitzer, Chair
- Financial Appeals Committee: Marc Grundy, Chair
- Fund Raising Committee: Chris Carey, Chair
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- Key Committee: Kevin Penrod, Chair
- Naming Committee: Ben Wygal, Chair
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- Planned Giving Committee: Chris Carey, Chair; Tom Verrill, Vice Chair
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- Public Art Committee: Ben Wygal, Chair
- Safety/Risk Control Committee: Tom Verrill, Chair; Kevin Penrod, Vice Chair
  - EPA and OSHA Compliance Subcommittee: ,Chair
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- University Archives and Records Committee: , Chair
- Web Oversight Committee: Ruthie Gray, Chair

### Other Committees:

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  - Retention Committee: Volker Henning, Chair
- Budget and Financial Statement Review: Tom Verrill, Chair
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- Faculty Affairs Committee: , Chair
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- Grievance Committee: Jan Haluska, Chair
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## INDEX

- Absences, 46
- Academic Advisement, 40
- Academic Calendar, 4
- Academic Enrichment Services, 24
- Academic Grievance Procedure, 46
- Academic Honesty, 43
- Academic Policies, 28
- Academic Program, 9
- Accounting Major, 106
- Accreditation and Memberships, 8
- Admissions, 11
  - ACT/SAT, 11
  - Conditional Acceptance, 12
  - English as a Second Language Students, 15
  - Extension Classes, 15
  - Graduate Programs, 16
  - International Students, 13
  - Non-Degree Students, 13
  - Regular Acceptance, 11
  - Transfer Credits, 13
- Adventist Colleges Abroad, 154
- Adventist Colleges Abroad Fees, 72
- Advertising Minor, 149
- Allied Health, 85
- Allied Health Pre-Dental Hygiene Major, 88
- Allied Health Pre-Health Information Administration Major, 88
- Allied Health Pre-Nutrition and Dietetics Major, 89
- Allied Health Pre-Occupational Therapy Major, 90
- Allied Health Pre-Physical Therapy Major, 91
- Allied Health Pre-Respiratory Therapy Major, 93
- Allied Health Pre-Speech-Language Pathology & Audiology Major, 93
- Anesthesia (CRNA), 218
- Animation Major, 211
- Application Procedure, 15
- Archaeology Major, 192
- Archaeology Minor, 195
- Architectural Drafting Major, 204
- Art Education Major, 209
- Art Education Minor, 215
- Art Major, 208
- Art Minor, 215
- Auto Service Major, 205
- Auto Service Minor, 206
- Auto Service Technician, 206
- Behavioral Science Minor, 202
- Biblical Languages Minor, 195
- Biblical Studies Major, 193
- Billing Procedures, 74
- Biology Department, 95
- Biology Major, 96
- Biology Minor, 97
- Biology, Biomedical Major, 97
- Biophysics Major, 181
- Board of Trustees, 346
- Broadcast Journalism Major, 145
- Broadcast Journalism Minor, 149
- Business Administration and Auto Service Majors, 106, 204
- Business Administration and Public Relations Majors, 105
- Business Administration Major, 104
- Business Administration Minor, 107
- Business and Management, School of, 98
- Campus Safety, 18
- Career Services, 18
- Certificate Program
  - Auto Service Technician, 206
- Chamber Music Series, 24
- Chaplain's Office, 18
- Chemistry Department, 108
- Chemistry Major, 108
- Chemistry Minor, 110
- Chemistry, Biochemistry Major, 109
- Christian Service Minor, 195
- Clinical Laboratory Science Major, 85
- Cognate Courses, 52
- Collection Policies and Procedures, 75
- Computer Information Systems Major, 102, 114
- Computer Science Major, 113
- Computer Systems Administration Major, 114
- Computing Minor, 114
- Computing, School of, 111
- Concert-Lecture Series, 19
- Conditional Standing and Dismissal, 44
- Construction Management Major, 205
- Contents, 3
- Continuing Education, 50
- Convocation, 19
- Core Values, 6
- Corporate/Community Wellness Management Major, 177
- Counseling and Testing Services, 19
- Course Descriptions, 225
- Course Load, 40
- Course Numbers, 51

- Curriculum Chart, 77
- Deferment of Financial Aid, 65
- Degrees and Curricula, 77
- Dentistry, 218
- Dining, 19
- Disabilities, 20
- Discipline, 20
- E. A. Anderson Lecture Series, 24
- E. A. Anderson Organ Concert Series, 24
- E. O. Grundset Lecture Series, 24
- Education and Psychology, School of, 115
- Education Minor, 130
- Engineering Studies, 132
- Engineering Studies Major, 132
- English as a Second Language, 47
- English as a Second Language Program (EESL), 135
- English Department, 133
- English Major, 133, 134
- English Minor, 134
- Entrepreneurial Management Minor, 107
- Estimated Student Budget (SAU Campus), 69
- Extension Classes, 50
- Facilities, 10
- Faculty Emeriti, 350
- Family Studies Major, 201
- Family Studies Minor, 202
- Fees and Charges, 67
- Film Production Major, 213
- Financial Aid Application Procedures, 61
- Financial Aid Available, 53
- Financial Aid Award and Disbursement Procedures, 62
- Financial Aid Eligibility Requirements, 62
- Financial Aid Policy, 53
- Financial Aid Refund Policy, 64
- Financial Management Major, 102
- Financing Your Education, 53
- Fine Arts Major, 210, 212
- Foreign Study, 154
- French Major, 156
- French Minor, 159
- General Degree Requirements: Associate Degree, 29
- General Degree Requirements: Baccalaureate Degree, 28
- General Degree Requirements: Master's Degree, 28
- General Education, 31
- General Requirements: Minor, 29
- General Studies Degree, 216
- Gerhard F. Hasel Lectureship on Biblical Scholarship, 25
- German Minor, 159
- Grading System, 41
- Graduation Requirements, 30
- Graduation with Academic Honors, 37
- Grants, 57
- Graphic Design Major, 213
- Graphic Design Minor, 215
- Health and Accident Insurance, 70
- Health and Wellness Minor, 179
- Health Science Major, 177
- Health Service, 23
- Health, Physical Education and Recreation Major, 176
- History Department, 136
- History Major, 137
- History Minor, 137
- History of the University, 8
- Honor Roll/Dean's List, 38
- Honors Studies Sequence, 37
- Human Resource Management Minor, 107
- Industrial/Organizational Psychology Minor, 118
- Institute of Archaeology, 25
- Institute of Evangelism & World Missions, 25
- Instructional Faculty, 351
- Insurance, 21
- Interactive Media Major, 214, 215
- Intercultural Communication Major, 146
- Intercultural Communication Minor, 149
- Interdepartmental Programs, 216
- Interdisciplinary, 140
- International Students, 13, 66, 70
- International Studies Major, 158
- Italian Minor, 159
- Journalism & Communication, School of, 142
- Journalism (News Editorial) Minor, 149
- Law, 219
- Learning Success Services, 25
- Liberal Arts Education Major, 129
- Libraries, 25
- Limitations on Class Attendance, 47
- Loans, 58
- Long-Term Care Administration Major, 104
- Lynn H. Wood Archaeological Museum, 26
- Major and Minor Requirements, 38
- Majors
  - Accounting, 103, 106
  - Allied Health Pre-Dental Hygiene, 88
  - Allied Health Pre-Health Information Administration, 88
  - Allied Health Pre-Nutrition and Dietetics Major, 89
  - Allied Health Pre-Occupational Therapy, 90
  - Allied Health Pre-Physical Therapy, 91

- Allied Health Pre-Respiratory Therapy, 93
- Allied Health Pre-Speech Language Pathology and Audiology, 93
- Animation, 211
- Archaeology, 192
- Architectural Drafting, 204
- Art, 208
- Art Education, 209
- Auto Service, 205
- Biblical Studies, 193
- Biology, 96
- Biology, Biomedical, 97
- Biophysics, 181
- Broadcast Journalism, 145
- Business Administration, 104, 107
- Business Administration and Auto Service, 106, 204
- Business Administration and Public Relations, 105
- Chemistry, 108
- Chemistry, Biochemistry, 109
- Clinical Laboratory Science, 85
- Computer Information Systems, 102, 114
- Computer Science, 113
- Computer Systems Administration, 114
- Construction Management, 205
- Corporate/Community Wellness Management, 177
- Engineering Studies, 132
- English, 133, 134
- Family Studies, 201
- Financial Management, 102
- Fine Arts, 210, 212
- French, 156
- General Studies, 216
- Graphic Design, 213
- Health Science, 177
- Health, Physical Education and Recreation, 176
- History, 137
- Interactive Media, 214, 215
- Intercultural Communication, 146
- Interdisciplinary, 140
- International Studies, 158
- Liberal Arts Education, 129
- Long-Term Care Administration, 104
- Management, 103
- Marketing, 103
- Mass Communication, 146, 147
- Mathematics, 151
- Media Technology, 148
- Medical Science, 216
- Mission, 193
- Music, 166
- Music Education, 163
- Nonprofit Administration and Development, 105
- Nursing, 169
- Outdoor Leadership, 119, 120
- Pastoral Care, 194
- Physics, 181
- Print Journalism, 145
- Psychology, 116
- Public Relations, 147, 148
- Public Relations and Business Administration, 148
- Religion, 195
- Religious Education, 194
- Religious Studies, 195
- Social Work, 201
- Spanish, 157
- Sports Studies, 178
- Theology, 192
- Management Major, 103
- Management Minor, 107
- Marine Biological Station, 26
- Marketing Major, 103
- Marketing Minor, 107
- Mass Communication Major, 146, 147
- Mathematics Department, 151
- Mathematics Major, 151
- Mathematics Minor, 152
- Media Production Minor, 149
- Media Technology Major, 148
- Medical Science Degree, 216
- Medicine, 220
- Methods of Payment, 73
- Minors
  - Advertising, 149
  - Archaeology, 195
  - Art, 215
  - Art Education, 215
  - Auto Service, 206
  - Behavioral Science, 202
  - Biblical Languages, 195
  - Biology, 97
  - Broadcast Journalism, 149

- Business Administration, 107
- Chemistry, 110
- Christian Service, 195
- Computing, 114
- Education, 130
- English, 134
- Entrepreneurial Management, 107
- Family Studies, 202
- French, 159
- German, 159
- Graphic Design, 215
- Health and Wellness, 179
- History, 137
- Human Resource Management, 107
- Industrial/Organizational Psychology, 118
- Intercultural Communication, 149
- Italian, 159
- Journalsim (News Editorial), 149
- Management, 107
- Marketing, 107
- Mathematics, 152
- Media Production, 149
- Mission, 196
- Music, 167
- Outdoor Leadership, 121
- Photography, 149
- Physical Education, 179
- Physics, 182
- Political Economy, 138
- Political Science, 138
- Practical Theology, 196
- Psychology, 118
- Public Relations, 150
- Relief Medic, 121
- Religion, 196
- Sociology, 202
- Spanish, 159
- Technology, 206
- Western Intellectual Tradition, 138
- Youth Ministry, 196
- Mission of Southern, 6
- Missions Major, 193
- Missions Minor, 196
- Modern Languages Department, 153
- Music Degree, 166
- Music Education Degree, 163
- Music Minor, 167
- Music, School of, 160
- Network Usage Policy, 113
- Non-Degree Preprofessional Programs, 218
- Nonprofit Administration and Development Major, 105
- Nontraditional College Credit, 48
- Nursing Major, 169
- Nursing, School of, 168
- One-Year Certificate Requirements, 29
- Online Learning, 9
- Optometry, 221
- Orientation Program, 20
- Osteopathic Medicine, 221
- Outcomes Assessment, 43
- Outdoor Leadership Major, 119, 120
- Outdoor Leadership Minor, 121
- Pastoral Care Major, 194
- Pharmacy, 222
- Photo Release, 21
- Photography Minor, 149
- Physical Education Minor, 179
- Physical Education, Health and Wellness, School of, 175
- Physics Department, 180
- Physics Major, 181
- Physics Minor, 182
- Planning a Course of Study, 28
- Podiatric Medicine, 223
- Political Economy Minor, 138
- Political Science Minor, 138
- Practical Theology Minor, 196
- Praxis Pass Rate, 121
- Prefix Glossary, 82
- Pre-Physician Assistant, 223
- Preprofessional Curricula, 82
- Prerequisite for Taking Upper Division Classes, 31
- Print Journalsim Major, 145
- Psychology Major, 116
- Psychology Minor, 118
- Public Relations and Business Administration Majors, 148
- Public Relations Major, 147, 148
- Public Relations Minor, 150
- Registration, 38
- Registry, The, 346
- Relief Medic, 121
- Religion Major, 195
- Religion Minor, 196
- Religion, School of, 183
- Religions Education Major, 194
- Religious Studies Major, 195
- Residence Hall Living, 21
- Residence Halls, 71
- Residence Requirements, 30
- Right of Petition, 46
- Robert H. Pierson Lecture Series, 26

- Rosario Beach Marine Biological Field Station, 26, 97
- SAU Refund Policies, 72
- Scholarships, 53
- Sequence of Courses, 51
- Setting of the University, 8
- Social Activities and Organizations, 21
- Social Work and Family Studies, Department, 197
- Social Work Major, 201
- Sociology Minor, 202
- Southern Scholars (Honors Program), 36
- Spanish Major, 157
- Spanish Minor, 159
- Sports Studies Major, 178
- Standards of Conduct, 22
- Student Association, 22
- Student Employment, 22
- Student Financial Responsibility, 66
- Student Labor, 65
- Student Life and Services, 18
- Student Mission/Task Force Credit, 38
- Student Publications and Productions, 22
- Student Records, 43
- Technology Department, 203
- Technology Minor, 206
- Theology Major, 192
- Transcripts, 50, 75
- Transient Student, 49
- University Administration, 346
- University Committees, 361
- Veterans' Benefits, 60
- Veterinary Medicine, 224
- Visual Art and Design, School of, 207
- Waiver Examinations, 47
- Western Intellectual Tradition Minor, 138
- William G. Dever Research Library, 26
- Work, 59
- WSMC FM90.5, 27
- Youth Ministry Minor, 196





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