

2008

Southern Adventist University Undergraduate Catalog 2008-2009

Southern Adventist University

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Southern Adventist University

2008-2009 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 adviser. You may also find help from the chair/dean of your department/school. It may be necessary to visit with the Director or Assistant Director of Records and Advisement. The Vice President and Associate Vice President for Academic Administration are also available to assist you. If you need explanations about financial questions, talk with the 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.”



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Academic Calendar

2008-09 School Year

The Southern Adventist University summer term consists of three sessions. Students in attendance during the 2007-08 school year may register at any time during the week immediately preceding the session.

1st Summer Session, 2008

May 5	Registration
May 5	Classes Begin
May 6	Late Registration Fee
May 7	Last Day to Add a Course/Fee for Class Change
May 16	Last Day to Drop and Automatically Receive a "W"
May 23	All Withdrawals After This Date Receive "F"
May 30	Classes End

2nd Summer Session, 2008

Jun 2	Registration
Jun 2	Classes Begin
Jun 3	Late Registration Fee
Jun 4	Last Day to Add a Course/Fee for Class Change
Jun 13	Last Day to Drop and Automatically Receive a "W"
Jun 20	All Withdrawals After This Date Receive "F"
Jun 30	Registration
Jun 30	Classes Begin
Jul 1	Late Registration Fee
Jul 2	Last Day to Add a Course/Fee for Class Change
Jul 11	Last Day to Drop and Automatically Receive a "W"
Jul 18	All Withdrawals After This Date Receive "F"
Jul 25	Classes End

3rd Summer Session (SmartStart), 2008

Jul 16	Online Registration Opens for Fall 2008
Jul 20	JumpStart Enrollment Services, 12:00 - 2:00 p.m.
Jul 21	Registration for BIOL 101, 225
Jul 22	Classes Begin in BIOL 101, 225
Jul 27	SmartStart Enrollment Services, 9:00 a.m. - 2:00 p.m.
Jul 28	Classes Begin
Jul 29	Late Registration Fee
Jul 30	Last Day to Add a Course/Fee for Class Change
Aug 8	Last Day to Drop and Automatically Receive a "W"
Aug 15	All Withdrawals After This Date Receive "F"
Aug 22	Classes End

1st Semester

Aug 11	ACT Exam, 1:00 p.m.
Aug 14	ACT Exam, 1:00 p.m.
Aug 21-27	University Colloquium
Aug 24-27	Freshman Orientation

Aug 25-27	Registration for Non-registered Students
Aug 28	Classes Begin
Aug 28	Late Registration Fee
Sep 5	Fee for Class Change and "W" Show on Transcript
Sep 11	Last Day to Add a Class
Sep 22-24	View Southern
Oct 15	Mid-term Ends
Oct 16-19	Mid-semester Break
Oct 23-26	Alumni Homecoming
Oct 31	Deadline to request Dec/May Graduation at Records Office
Nov 6	Last Day to Drop and Automatically Receive a "W"
Nov 7	Withdrawals through Dec 5 receive W or WF
Nov 11,12	Seniors Pre-Registration>93 hours
Nov 13,14	Juniors Pre-Registration>54 hours
Nov 17,18	Sophomores Pre-Registration>23 hours
Nov 19-21	Freshmen Pre-Registration<24 hours
Nov 26-30	Thanksgiving Vacation
Dec 1-Jan 9	Online Registration opens for New/Transfer Students
Dec 5	All Withdrawals After This Date Receive an "F"
Dec 14-17	Semester Exams
Dec 17	Commencement, 7:00 p.m.
Dec 18-Jan 4	Christmas Vacation
Dec 24-Jan 1	Wright Hall Closed

2nd Semester

Jan 4	Enrollment Activities for New Students, 12:00-2:00 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 19	Martin Luther King, Jr. Day/No Class/Community Service Day
Jan 20	Last Day to Add a Class
Feb 26	Mid-term Ends
Feb 27-Mar 8	Spring Break
Mar 20	Last Day to Drop and Automatically Receive a "W"
Mar 24,25	Senior Pre-Registration>93 hours
Mar 26,27	Junior Pre-Registration>54 hours
Mar 30,31	Sophomores Pre-Registration>23 hours
Mar 30	Senior Deadline for Correspondence/Incompletes/Homes Study
Apr 1-3	Freshman Pre-Registration<24 hours
Apr 17	All Withdrawals After This Date Receive "F"
Apr 26-29	Semester Exams
May 3	Commencement/Semester Ends

May 4-Aug 21 Summer Sessions 2009

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 Services
 - 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 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 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 7 master's degree programs with 22 emphases, 58 baccalaureate degree majors, 50 minors, 16 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 37). 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—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—Gymnastics Center, 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

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, 2002, 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 21, 2008. This session will include a free three-hour course (SmartStart) as well as a special Academic Power Tools class for which an additional fee is required.

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 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 51). 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.

Transfer courses that are comparable to Southern Adventist University courses may be recorded with an earned grade of “D” or better in general education and a “C” earned grade for a major.

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

Mature 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 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: (1) the Test of English as a Foreign Language (TOEFL) Internet-Based Test (IBT); (2) the TOEFL Paper-Based Test (PBT); or (3) the TOEFL Computer-Based Test (CBT). Students whose TOEFL (IBT) score is 79 (PBT 550 or CBT 213) 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 for the first year at Southern
4. Submit bank statements that back-up 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 international students with student visas 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 toward 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 Immigration Services. 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 enter the United States

In addition to the 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 or CBT 133-212). 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 or CBT 133) are not eligible for admission to the University. See page 127 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.
- 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. To register for classes, this card must be completed and returned to the Enrollment Services Office with a \$250 Commitment Deposit. Deadlines are July 15 for the fall semester and November 14 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 whether residence hall or village.

Admission to Graduate Programs

For information on graduate programs or a copy of the *Graduate Catalog*, please contact the Dean of Graduate Studies at 423.236.2912.

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 Services

Master of Science in Administration

- Church Administration
- Outdoor Education

School of Education and Psychology

Master of Science

- Professional 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)

School of Nursing*Master of Science in Nursing*

Adult Nurse Practitioner
Family Nurse Practitioner
Nurse Educator

Accelerated RN to MSN

Adult Nurse Practitioner
Family Nurse Practitioner
Nurse Educator

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

Adult Nurse Practitioner
Family Nurse Practitioner
Nurse Educator

School of Religion*Master of Arts*

Biblical and Theological Studies
Church Leadership and Management
Church Ministry and Homiletics
Evangelism and World Mission
Religious Education
Religious Studies

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 out-reach activities such as Campus Ministries, CABL (Collegiate Adventist for Better Living), Destiny Drama Company, Collegiate Missions, and numerous religious programs.

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

Students who wish to seek assistance from a professional counselor should contact Counseling Services in the Student Success Center located on the third floor of Lynn Wood Hall (423.236.2782). A wide variety of resources to assist students adjust to university life are available. Personal and career counseling, consultation, testing, 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 two vegetarian fast-food shops on the campus. K.R.'s Place is conveniently located in the Student Center and the Campus Kitchen is at the nearby Fleming Plaza.

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*.

Health Service

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*.

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 waived the 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 information regarding other insurance.

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.

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, a 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

Within a Christian context, McKee Library manages the academic knowledge commons and instructs users in its proper use, because knowledge is the foundation for critical thinking. A variety of educational resources in print, non-print, and electronic format are made available to the students and the faculty of the University. Professional librarians and staff are available to help students and faculty with their individual research needs as well as providing class instruction and tours. McKee Library's website is a central source for accessing information and is located at <http://library.southern.edu>. Research Central links students and faculty to the online catalog, over 100 databases, over 21,000 full-text periodicals, a journal locator, and selected websites. The Services and About Us pages provide information about McKee Library and its services. Students enrolled in online courses may access the McKee Library-Distance Education page located at <http://disted.southern.edu>. The print collection contains over 150,000 volumes housed in open stacks. Over 4,000 items are housed in the media collection. One thousand one hundred print periodicals are currently received which include a large number of titles kept permanently on microform. Special collections in the library include the Dr. Vernon Thomas Memorial

Civil War and Abraham Lincoln Collection: books, letters, manuscripts, newspapers, pamphlets, picture, paintings, maps, and artifacts of this period in American History. Individual study carrels and group study tables provide areas for student learning.

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.

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 faculty members during the summer months before the beginning of the fall term. Students planning to teach should consult the School of Education and Psychology to include teacher education courses as a part of their program in order to qualify for denominational and state certification.

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 graduate school. 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 a resident and cumulative grade point average of 2.00 (C) or above.* Students earning the Bachelor of Music degree will take 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 degrees.
- Completion of a major and minor (two majors accepted) for a B.A. degree or completion of a major for other degrees with a cumulative grade point average 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 on a major or minor. Grades of "C" or better are required for the Nursing major and grades of "C" or better are required for Nursing cognate courses.

**For educational certification, all secondary and elementary majors must have a minimum overall grade point, major, and education average of 2.75, as well as achieve a minimum grade of "C" (2.00) in all teacher education cognate courses. The Nursing Major requires a GPA of 2.50 in cognate courses as well as in the major. The School of Religion and the Social Work Department requires a minimum overall GPA of 2.50.*

General Degree Requirements: Baccalaureate, continued

- More than one major may be earned provided all courses required for each major and its cognates are completed. Each major must include a minimum of 20 semester hours that do not overlap with any other major or minor.
- More than one minor may be earned provided all courses required for each minor are completed. Each minor must include a minimum of 12 semester hours that do not overlap with any other major or minor.
- Bachelor of Art degrees are exempt from completing a minor if the student is a Southern Scholar or working towards certification.
- Completion of an 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 and a resident and cumulative grade point average of 2.00 (C) or above. Nursing majors need 69 semester hours and a minimum cumulative GPA of 2.50.
- 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.
- 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.

One-Year Certificate Requirements

- 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

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. 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 correspondence and transfer credits 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 residency including 30 of the last 36 hours completed preceding the conferment of the degree. The total hours taken in residence must include fifteen in upper division, nine of which must be in the major and three in the minor fields.

Associate Degree: Twenty-five percent of the total semester hours required for the associate degree must be taken in residency including 30 of the last 36 hours completed preceding the conferment of the degree. The total hours taken in residence must include fifteen in the major field of study and three in the minor if a minor is 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, Basic Academic 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 selected 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 17, an SAT language score below 430, or a TOEFL score below 550 (an IBT TOEFL score of 79; a CBT TOEFL score of 213) 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 a and b.
The computer skill building courses are CPTe 105, 106, 107 109, 110, 205, 245/345; ARTG 115 (covers two skilled areas); BUAD 104 (covers three skill-based areas), 105, 245/345; EDUC 319; MUED 250; 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.

Area A Total	Associate	Bachelor's
English	6-9	6-9
Mathematics	0-3	0-3
Basic Computer	3	3
Oral Communication	3	3

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.

Area B Total	Associate	Bachelor's
	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 MDLG 240-241.

1. Foreign Language

FREN 101-102, 207-208; GRMN 101-102, 207-208; ITAL 101-102, ITAL 207-208; MDLG 240-241, 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

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

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 36 of the *Catalog* for clarification.

1. **Biology**
BIOL 101-102, 103, 151-152, 225, 226, 250, 314, 421, 424.
2. **Chemistry**
CHEM 107, 111-112, 113-114, 115, 151-152.
3. **Physics**
PHYS 127, 128, 155, 211-212, 213-214, 317.
4. **Earth Science**
ERSC 105.

Area E Totals	Associate	Bachelor's
	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, 217, 224, 231, 233, 249, 315, 349, 377, 415; SOCW 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 233; PSYC 233.
3. **Health Science**
HLED 173; HLNT 135; NRNT 125.

Area F Total	Associate	Bachelor's
	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; 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; CPIS 220; CPTR 124, 215; 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 scholarship on page 57.

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, 424, 458, or 467.
 - Area D-1. Foreign language competency must be attained at the intermediate level.
 - Area D-2. ENGL 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 151-152; 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 three weeks prior to graduation. The 2-3 hours of credit for this project is done as 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:

- 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 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 in the section "Courses of Study."

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 (Medical Technology)		
	A.S.	Pre-Dental Hygiene		
	A.S.	Pre-Health Information Administration		
	A.S.	Pre-Nutrition and Dietetics		
	A.S.	Pre-Occupational Therapy		
	A.S.	Pre-Physical Therapy		
	A.S.	Pre-Respiratory Therapy		
	A.S.	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 component 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	
	B.B.A.	Financial Management		Entrepreneurial Mgmt
		Accounting		Human Resource Mgmt
Finance			Management	
B.B.A.	General Management		Marketing	
	Management			
	Entrepreneurship			
	General Management Human Resource Management International Business			

Department/ School	Degree	Major	Minor	
Business and Management	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		
	A.S. A.S.	Accounting 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		
Education and Psychology	M.S.	Professional Counseling School Counseling		
	M.S.Ed.	Curriculum & Instruction Educational Administration & Supervision Inclusive Education (available online) Literacy Education Outdoor Teacher Education (available online) (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)	Psychology	
	B.S.	Outdoor Leadership Business Counseling Cultural Interpreter Naturalist Outdoor Ministry Public Relations/Advertising Recreation Technology		
	English	B.A.	*English	English
	General Studies	A.A.	General Studies	
		A.S.	General Studies	
History	B.A.	*History European Studies	History Political Economy Political Science Western Intellectual Tradition	
	Interdisciplinary	BS/BA/ BBA	Interdisciplinary	

Department/ School	Degree	Major	Minor	
Journalism and Communication	B.A.	Broadcast Journalism	Advertising	
	B.A.	Intercultural Communication	Broadcast Journalism	
	B.A.	Print Journalism	Intercultural Comm	
	B.S.	Mass Communication	Advertising	Journ (News Editorial)
			Media Production	Media Production
			New Media	Nonprofit Leadership
			Photography	Photography
			Writing/Editing	Public Relations
	B.S.	Nonprofit Administration & Development	Sales	
	B.S.	Public Relations		
B.S.	Public Relations/Business Administration			
A.S.	Media Technology	New Media		
		Web		
Mathematics	B.A.	*Mathematics	Mathematics	
	B.S.	Mathematics		
Modern Languages	B.A.	*French	French	
	B.A.	International Studies Emphasis in French, German, Italian or Spanish	German	
			Italian	
B.A.	*Spanish	Spanish		
Music	B.S.	Music	Music	
				General
				Music Theory & Literature
B.Mus.	*Music Education			
Nursing	M.S.N.	Nursing		
				Adult Nurse Practitioner
				Family Nurse Practitioner
				Nurse Educator
				Dual Degree—MSN and MBA (MBA component available online)
				Accelerated RN to MSN
B.S.	Nursing			
				Accelerated Dual Degree (See Graduate Catalog)
PE, Health and Wellness	B.S.	*Health, PE, and Recreation	Health & Wellness	
	B.S.	Health Science	Physical Education	
	B.S.	Corporate/Community Wellness Management		
	B.S.	Sports Studies	Human Performance	
			Journalism	
	Management			
	Marketing			
	Psychology			

Department/ School	Degree	Major	Minor
PE, Health and Wellness	B.S.	Sports Studies, continued Public Relations/Advertising Recreation	
Physics	B.A. B.S. B.S. A.S.	*Physics Physics Biophysics Engineering Studies	Physics
Religion	M.A. B.A. B.A. B.A. B.A. A.A.	Religion Biblical and Theological Studies Church Leadership & Management Church Ministry and Homiletics Evangelism and World Mission Religious Studies (See Graduate Catalog) Archaeology Classical Studies Near Eastern Studies Pastoral Care *Religious Education Religious Studies Theology Religion Bible Instructor Literature Evangelist	Archaeology Biblical Languages Christian Service Missions Practical Theology Religion Youth Ministry
Social Work and Family Studies	B.S. B.S.W.	Family Studies Social Work	Behavioral Science Family Studies Sociology
Technology	B.S./A.T. A.T. A.T. A.T. Cert.	Business Administration/Auto Service Architecture Drafting Auto Service Construction Management Auto Service Technician	Auto Service Technology
Visual Art and Design	B.A. B.A. B.F.A. B.F.A. B.S. B.S. B.S. B.S. B.S. A.S.	Art Art-Therapy *Art Education Fine Arts Animation Character Animation Effects Animation Technical Animation Film Production Graphic Design Print Design Web Design Interactive Media Graphic Design	Art Art Education Art-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 which may prepare students for admission to professional schools or to enter technical careers. The following nondegree pre-professional curricula are offered at Southern Adventist University:

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

Detailed requirements for non-degree pre-professional curricula are outlined by department or in the section on “Interdepartmental 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.

Registration

Students are expected to register during the scheduled registration periods designated in the school calendar. Registration is complete only after the adviser 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. 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 program changes, 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, and the cost is one-half of the regular tuition charge. Audit tuition charge is in addition to a flat rate charge.

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

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

- Upon presentation of official military orders, the student will be automatically withdrawn from all of his/her courses for the given semester and a grade of "W" with notice of reason for withdrawal will be recorded on his/her academic record.
- In addition, the student is eligible for a full-tuition refund or can choose to have the monies held on account to be used at a later date.
- In the case of a resident student, room and board charges will be prorated based on the period in the semester when the student is required to leave; and the remaining charges will be refunded or held on account based on the student's request.

Course Load

University courses are expressed in semester hours. A semester hour 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 Vice President for Academic Administration, a student may not register for eighteen 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 adviser in planning the proper balance of study and work.

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

<u>Course Load</u>	<u>Maximum Work Load</u>
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 adviser from their major field and are required to consult with their advisers before registering for classes.

The responsibility of meeting graduation requirements belongs to the individual student. In planning their schedules all students should carefully follow the instructions in the *Catalog*, recommendations of their advisers, and print a degree audit from the web. In the event of a discrepancy between an adviser's word and the *Catalog*, final interpretation of graduation requirements rests with the Records and Advisement Office.

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. There is a charge of \$20 for processing grades of incomplete. Any incomplete which is not removed by the end of the following term (Fall, Winter) will automatically become an "F." A professor may assign a temporary "IP" (in progress) when an unavoidable problem prevents the issuance of a grade.

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 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:

A	4.00 grade points per hour	C-	1.70 grade points per hour
A-	3.70 grade points per hour	D+	1.30 grade points per hour
B+	3.30 grade points per hour	D	1.00 grade points per hour
B	3.00 grade points per hour	D-	0.70 grade points per hour
B-	2.70 grade points per hour	F	0.00 grade points per hour
C+	2.30 grade points per hour	WF	0.00 grade points per hour
C	2.00 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. 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 \$669 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:

Cumulative Credit Hours	Attempted Cumulative Grade Point Average
0 – 23	1.50 or above
24 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 64, “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 Student Health Service 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 (CBT 213). 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 151, 152, 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 \$50 per credit hour. For example: The cost for ENGL 101, three credit hours, would be \$150 (\$50 x 3).

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 hand-written 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 77.

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

Southern Adventist University is committed to providing every student with the opportunity to obtain a Christian education. To reach this goal, the Enrollment Services Office will make every effort to work together with students toward meeting the students' financial obligations.

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, Tennessee 37315-0370, phone 1.800.SOUTHERN, or go to our website 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**

<i>Freshman Scholarship Amount</i>	<i>Scholarship</i>	<i>Total Points</i>
\$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 bridge 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 six 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.

Bronze Circle Scholarship	\$1,500 with maintenance of 3.40-3.59 GPA
Silver Circle Scholarship	\$2,000 with maintenance of 3.60- 3.79 GPA
Gold Circle Scholarship	\$2,500 with maintenance of 3.80 and above GPA

Placement in National Merit Scholarship Competition*

<i>Placement</i>	<i>1st Year Scholarship</i>	<i>Renewable for three years**</i>
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 - \$140 per full week worked, with a cap of \$1,680. 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 \$2,500 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 Load. 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.

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. There are several searchable databases of more than 180,000 private scholarships, fellowships, grants, and loans at www.fastweb.com.

Please Take Note

- Applicants for admission and financial aid will be awarded scholarship 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 2008-2009 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 SAU 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 SAU grant may be canceled. Any requests for exceptions should be addressed to the Academic Progress Committee.

SAU Endowment Grants—Southern Adventist University is blessed with a growing 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. 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 a 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 SAU funds, and do not count toward the six credit hours.

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 \$2,875 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.

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:

- \$3,500 if they are first-year students enrolled in a program of study that is a full academic year.
- \$4,500 if they have completed at least 24 credit hours, and the remainder of their program is a full academic year.

- \$5,500 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 \$23,000.

Independent undergraduate students may borrow up to:

- \$7,500 if they are first-year students enrolled in a program of study that is a full academic year. (At least \$4,000 of this amount must be in unsubsidized Stafford Loans.)
- \$8,500 if they have completed at least 24 credit hours and the remainder of the program is a full academic year. (At least \$4,000 of this amount must be in unsubsidized Stafford Loans.)
- \$10,500 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 \$5,000 of this amount must be in unsubsidized Stafford Loans.)

The total Stafford Loan debt that an independent undergraduate student may accumulate is \$46,000, with no more than \$23,000 in subsidized loans.

Stafford loan interest rate is variable but not higher than eight and a quarter percent. Variable interest rates are set each June. For more 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 in college. 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. VA benefits cannot exceed Southern's total cost of attendance.

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 \$3,983/semester to cover 90% of the tuition for these classes (\$3,613) 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 \$446/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 SAU 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 SAU 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 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.
4. A copy of FAFSA worksheets A, B, and C. This copy 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 SAU. 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

0 - 23

24 or above

Cumulative Grade Point Average

1.50 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 SAU'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 SAU 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 SAU refund policy for students withdrawing from classes is outlined on page 74.

Since financial aid is considered to be used first for direct educational costs (tuition, fees, room, board, and books), when a student withdraws from all 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 SAU 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 SAU and then charged to the student's account.

Deferral 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.

Those students who have not yet received their first bachelor's degree who desire deferment on their student loan payments during their mission service placement must enroll in NOND 227 Christian Service I, 6 hours, and NOND 228 Christian Service II, 6 hours.

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 will have Social Security taxes (FICA) withheld from their earnings.

International Student Labor Regulations

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

Student Payroll Policies and Procedures

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

Students who receive Federal Work-Study earnings will receive 100% of their net earnings unless they give written permission for their earnings to be applied to their student account 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 accumulate toward their first month statement.

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.

Student Check Cashing

Students are encouraged to use their home banks or a local area bank for their personal financial services. SAU 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 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*.

Students taking less than six credit hours must pay the full amount of tuition in advance. No discount is available for students who fall in this category.

Tuition and General Fee Charges

Tuition per semester hour (1-11 hours).....	\$ 669.00
Tuition for 12-16 semester hours (flat fee)	7,910.00
Tuition for each semester hour over 16.....	511.00
Tuition for each semester hour of summer school	511.00
*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	669.00
Add/Drop fee.....	20.00
Application for admission (non-refundable)	25.00
Audit tuition per semester hour (not included as part of 12-16 hour charges).....	334.50
Automobile parking fee (per semester):	
Residence hall students	40.00
Village students	40.00
Motorcycle parking fee	40.00
Collegedale Academy student tuition	1/2 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 midterm or 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
Medical Technology recording fee (senior year).....	55.00
Music lesson fee per semester hour	150.00
Nursing consortium tuition per hour	268.00
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	1,450.00
Southern Village rent per semester	1,630.00
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 73 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)	7,910	15,820	7,910	15,820
General Fee	370	740	370	740
Residence Hall Rent**	1,450	2,900		
Food	925	1,850		
Books and Misc. Supplies	<u>500</u>	<u>1,000</u>	<u>500</u>	<u>1,000</u>
Total Estimated Costs*	<u>\$11,155</u>	<u>\$22,310</u>	<u>\$8,780</u>	<u>\$17,560</u>

(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 73 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.

Food Service and Miscellaneous Charges

Southern's food 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, and KR's Place. Residence hall students will be billed \$925 at the beginning of each semester.

The \$925 food allowance for the fall semester begins August 24, 2007, and ends on December 31, 2008. The \$925 food allowance for the winter semester begins January 1, 2009, and ends on May 3, 2009. 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 \$925 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 pro-rated based on their room assignment end date as determined by the Housing Office. A student will not be refunded more than the \$925 minus what they have already used.

Community students may charge food at the Campus Kitchen, Dining Hall, and KR's Place 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 a 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 \$3,000 U.S. 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 SAU, 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 midterm.

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 \$2,820 (no private bathroom) or \$2,900 (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 \$4,350. Residence hall students living in the Southern Village apartments are charged \$3,260 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 15. After July 15, 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 15.

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 \$850 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 August 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.

International Trips

Tuition for international tours/trips are charged at one-third the normal tuition rate. Students eligible for tuition subsidy will receive 70% of the tuition charged.

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 or Modern Languages Department.
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 SAU for charges before the University makes payment to ACA. **If payment is not received, students will be sent back from ACA.**

SAU 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 from school completely 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.

Refunds are calculated as follows:

1 st week	100%
2 nd and 3 rd weeks	80%
4 th and 5 th weeks	60%
6 th , 7 th , and 8 th weeks	40%
9 th week	0%

Refund for Shortened School Term Withdrawal (including Summer Sessions)

1 st two school days	100%
3 rd and 4 th school days	60%
5 th 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 aid funds, according to the Financial Aid Refund Policy described on page 66. 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.

Payment Plans

Two payment plans are available.

Year in Advance Payment Plan

SAU 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.

Monthly Payment Plan

A monthly payment plan is available for the 2008-2009 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 30 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 SAU, it will be written on the check by an SAU 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 7th business day of each month. The monthly payment is due the 28th 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, SAU 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, or any unpaid account for which the University has co-signed.

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 June 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 September 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 account, settlement, 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.

Prefix Glossary

Prefix	Subject Area	Department/School Section of Catalog
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
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 Skills Language	English
ELIT	Literature	English
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

Prefix	Subject Area	Department/School Section of Catalog
MDTC	Medical Technology	Allied Health
MGNT	Management	Business and Management
MUCH	Church Music	Music
MUCT	Music Theory	Music
MUED	Music Education	Music
MUHL	Music History	Music
MUPF	Individual and Group Instruction	Music
NOND	Nondepartmental	Nondepartmental
NRNT	Nutrition	Nursing
NRSQ	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
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: Earl Aagaard, Joyce Azevedo, David Ekkens, Ann Foster, Rick Norskov, Lee Spencer, Neville Trimm

Program Adviser: 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 (listed on pages 82-83).

Mission Statement

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

Assessment

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

Bachelor of Science in Clinical Laboratory Science

Adviser: 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 advisers 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 adviser. 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 (25 Hours)

Required Core Courses		Hours	General Education Courses		Hours
ALHT 225	Intro to Clinical Lab Sci	2	COMM 135	Intro to Public Speaking	3
BIOL 151-152	General Biology	8	ENGL 101-102	College Composition	6
BIOL 311	Genetics	4	MATH 120	Precalculus Algebra*	3
BIOL 330	General Microbiology	4	PEAC 225	Fitness for Life	1
BIOL 340	Immunology	3	Area A	Computer Course	3
BIOL 397	Intro to Research (W)	1	Area B	Religion	6
	Biology Electives**	3	Area B	Upper Division Religion	3
			Area C	History	3,3
			Area D	Foreign Lang/Lit/Fine Arts	3
			Area F	Behav/Fam/Hlth Sci	3
			Area G	Rec Skills	1
				Electives***	12
Required Cognates		Hours			
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 315, 417, 418..... 3

***Electives 12

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

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

Adviser: 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 31-35.

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	PEAC 225	Fitness for Life	1
BIOL 225	Basic Microbiology	4	Area A	CPTÉ 100, 105, 106	3
HLED 173	Health for Life**	2	Area B	Religion	6
MATH 106	Survey of Math I		Area C-1	History	3
	OR	3	Area D	Foreign Lang/Lit/Fine Arts*	6
MATH 120	Precalculus Algebra		Area F-1	Psychology***	3
SOCI 125	Intro to Sociology	3	Area G-3	PE Activity	1
SOCI 150	Cultural Anthropology				
	OR	3			
SOCI 230	Multicultural Relations				

* Three hours may be substituted by a course in History or Religion
 **May be substituted by NRNT 125
 ***May be substituted by a course in Economics, Geography, or Political Science
 NOTE: C is the lowest acceptable grade.

Recommended: BIOL 255 Intro to Dentistry

Major—A.S. Allied Health Pre-Health Information Administration (37 Hours)

Adviser: 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 31-35.

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	CPT 100	Computer Concepts*	1
BIOL 101-102	Anatomy & Physiology	8	ENGL 101-102	College Composition	6
BUAD 104	Business Software	3	PEAC 225	Fitness for Life	1
BUAD 310	Bus Communications (W)	3	Area B	Religion	6
CHEM 111-114	Survey of Chemistry & Lab	8	Area C-1	History (Choose 1 from 154, 155, 174, or 175)	3
HLED 173	Health for Life**	2	Area D	Foreign Lang/Lit/Fine Arts (from 2 different areas)	6
PSYC 122	General Psychology	3	Area G-3	PE Activity	1
SOCI 150	Cultural Anthropology				
	OR	3			
SOCI 230	Multicultural Relations				
PSYC/SOCI/ PLSC/GEOG	Elective	3			

* May take challenge exam

**May be substituted by NRNT 125, Nutrition

NOTE: C is the lowest acceptable grade.

Medical Terminology (not offered at SAU. See Allied Health adviser)

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

Adviser: 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 31-35.

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	PEAC 225	Fitness for Life	1
NRNT 125	Nutrition	3	Area A	CPT 100, 105, 106	3
PSYC 122	General Psychology	3	Area B	Religion	6
SOCI 125	Intro to Sociology	3	Area G-3	Recreation Skills	1
			<i>Select three (3) hours from the following:</i>		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 1, II plus higher math or college algebra taken in college

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 31-35.

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	PEAC 225	Fitness for Life	1
CHEM 151	General Chemistry**	4	Area A	CPT 100, 105, 106	3
NRNT 125	Nutrition	3	Area B	Religion	6
PSYC 122	General Psychology	3	Area C-1	History (Choose 1 from 154, 155, 174 or 175)	3
SOCI 125	Intro to Sociology	3	Area D	Foreign Lang/Lit/Fine Arts (from 2 different areas)	6
SOCI/PSYC/PLSC Elective		3	Area G-3	Recreation Skills	1
				Electives (or Math)*	6

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

**Can substitute CHEM 111-114

NOTE: C is the lowest acceptable grade

Major—A.S. Allied Health Pre-Occupational Therapy (34-35 Hours)

Adviser: 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 31-35.

Nine hours of 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.

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	PEAC 225	Fitness for Life	1
CHEM/PHYS	Select from Chem/Phys/ Physical Science	3-4	Area A	CPE 100, 105, 106	3
HLED 173	Health for Life	2	Area B	Religion	6
NRNT 125	Nutrition	3	Area C-1	History (Choose 1 from 154, 155, 174 or 175)	3
PSYC 122	General Psychology	3	Area D	Foreign Lang/Lit/Fine Arts (from 2 different areas)	6
PSYC 128	Developmental Psychology	3	Area G-3	Recreation Skills	1
SOCI 125	Intro to Sociology	3			
Electives (or Math)*		4			

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

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)

Adviser: 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 31-35.

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	PEAC 225	Fitness for Life	1
HLED 173	Health for Life***	2	Area A	CPE 100, 105, 106	3
MATH 215	Statistics	3	Area B	Religion	6
PETH 315	Physiology of Exercise (W)	4	Area B	UD Religion	3
PHYS 127-128	Exploring Physics I & II	6	Area C-1	History	3
PSYC 101	Psyc of Personal & Soc Adj OR	3	Area D	Music or Art Appreciation	3
PSYC 122	General Psychology	3	Area G-3	Recreation Skills	1
PSYC 128	Developmental Psychology	3	PLSC/GEOG/ ECON	Elective**	3
Cognates					
Electives****		9			
UD Electives		12			
Medical Terminology		1			

Andrews University Track, continued

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

*May be substituted by BIOL 151-152, General Biology

**May be substituted by a course in Sociology

***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.

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 31-35.

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	PEAC 225	Fitness for Life	1
HLED 173	Health for Life**	2	Area A	CPE 100, 105, 106	3
MATH 215	Statistics	3	Area B	Religion	6
PETH 315	Physiology of Exercise (W)		Area B	UD Religion	3
	OR	3-4	Area C-1	History (Choose 1 from (HIST 154, 155, 174, or 175)	3
BIOL UD	Choose UD Biology		Area D	Foreign Lang/Lit/Fine Arts (from 2 different areas)	6
PHYS 127-128	Exploring Physics I & II	6	Area D	UD Lang/Lit/Fine Arts	3
PSYC 122	General Psychology	3	Area G-3	Recreation Skills	1
PSYC 128	Developmental Psychology	3	SOCI/PSYC	UD Elective	3
SOCI/PSYC/ PLSC	Elective	3		UD Electives***	3
				Electives	10-11

*May be substituted by BIOL 151-152, 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, 15 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)

Adviser: 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 judgement, 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 31-35.

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	PEAC 225	Fitness for Life	1
CHEM 111-114	Survey of Chem & Lab****	8	Area A	CPTC 100, 105, 106	3
HLED 173	Health for Life***	2	Area B	Religion	6
PHYS 127-128	Exploring Physics I or II**	3	Area C-1	History (Choose 1 from (HIST 154, 155, 174, or 175)	3
PSYC 122	General Psychology	3	Area D	Foreign Lang/Lit/Fine Arts (from 2 different areas)	6
SOCI 150	Cultural Anthropology OR	3	Area G-3	Recreation Skills	1
SOCI 230	Multicultural Relations		PSYC/SOCI/ PLSC/GEOG	Elective	3

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

*May be substituted by BIOL 151-152, 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

NOTE: C is the lowest acceptable grade.

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

Adviser: 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 31-35.

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	PEAC 225	Fitness for Life	1
CHEM/MATH/ BIOL/PHYS	Select from CHEM, MATH BIOL, or PHYS*	3-4	Area A	CPE 100, 105, 106	3
HLED 173	Health for Life	2	Area B	Religion	6
PHYS 127-128	Exploring Physics I or II**	3	Area C-1	History (Choose 1 from HIST (154, 155, 174, or 175)**	3
PSYC 122	General Psychology	3	Area D	Foreign Lang/Lit/Fine Arts (from 2 different areas)	6
PSYC 128	Developmental Psychology	3	Area G-3	Recreation Skills	1
SOCI/PSYC/ PLSC	Select from SOCI, PSYC, or Elective	3			
	Electives (or MATH)	3			
	Electives	4			

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

** AU requires HIST 174 or 175, World Civilization

DEPARTMENT OF BIOLOGY

Chair: Keith Snyder

Faculty: Earl Aagaard, Joyce L. Azevedo, David Ekkens, L. Ann Foster, Rick Norskov, Lee Spencer, Neville Trimm

Adjunct Faculty: Roger Hall

Adjunct Research Faculty: Scott Hodges

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 215).

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 (23 Hours)

BIOL 151-152	General Biology	8
BIOL 311	Genetics	4
BIOL 317	Ecology	3
BIOL 412	Cell and Molecular Biology	4
BIOL 424	Issues in Natural Sci/Rel (W)	3
BIOL 486	Biology Seminar	1

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 (32 Hours) Chemistry Minor Recommended

Required Biology Courses	Hours	Required Cognates	Hours
Biology Core Courses	23	CHEM 151-152 General Chemistry	8
Biology Electives*	9	CHEM 311-312 Organic Chemistry	8
		MATH 120 Precalculus Algebra**	3
		Highly Recommended	
		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 (41 Hours)

Required Biology Courses	Hours	Required Cognates	Hours
Biology Core Courses	23	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
Highly Recommended			
MATH 181 Calculus I	3		
BIOL 397 Intro to Biological Rsrch (W)	1		
BIOL 497 Research in Biology (W)	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 (41 Hours)

Required Biology Courses		Hours	Required Cognates		Hours
	Biology Core Courses	23	CHEM 151-152	General Chemistry	8
	Biology Electives*	18	CHEM 311-312	Organic Chemistry	8
			CHEM 341	Biochemistry	4
			MATH 120	Precalculus Algebra**	3
			MATH 121	Precalculus Trigonometry**	2
			MATH 215	Statistics	3
			PHYS 211-214	General Physics & Lab	8
*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.					
Highly Recommended					
			ACCT 103	College Accounting	3
			BIOL 397	Intro to Research (W)	1
			BIOL 497	Research in Biology (W)	1-2
			MGNT 334	Principles of Management	3

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 119) 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	23	CHEM 151-152	General Chemistry	8
BIOL 312	Vertebrate Natural History	3	CHEM 311-312	Organic Chemistry	8
BIOL 330	General Microbiology	4	CHEM 341	Biochemistry I	4
BIOL 408	Flowering Plants & Ferns		Required Cognates		
	OR	3	ERSC 105	Earth Science	3
BIOL 409	Smoky Mt. Flora		MATH 215	Statistics	3
BIOL 418	Animal Physiology	3	PHYS 127	Exploring Physics I	3

Minor—Biology (18 Hours)

Required Courses		Hours
BIOL 151-152	General Biology	8
	Biology Electives*	10

*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: Robert Broome, Herbert Coolidge, William Dean, Doug Froot, Henry Hicks, Mark Waldrop, Greg Willett, 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, Letitia S. Erdmann, Michelle Fetters, 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 apply for admission before or during their sophomore year (24-54 semester hours). Transfer students will be considered on a case by case basis. Students may be admitted who have met these criteria:

- Earned an ACT English score of at least 22; Math as required by major.
- Completed nine hours of business courses in residence with an earned overall
- major GPA of 2.25 or better with no grade less than “C”.

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, and Sports Studies
- Master of Business Administration
- Master of Financial Services
- 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 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.A./B.S. Core **Hours**

BUAD 358	Eth, Soc & Leg Env of Bus (W)	3
BUAD 288/488	Business Seminar	1
FNCE 315	Business Finance	3
MGNT 464	Business Strategies (W)	3
		<u>10</u>

Computer Information Systems Major

Six hours in concentration	6
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Financial Management Major

ACCT 450	Advanced Accounting	3
Six additional hours in concentration		<u>6</u>
		9

Management Major

Six hours in major including:		
MGNT 410	Org Theory & Design	3
UD Management Elective		<u>3</u>
		6

B.B.A./B.S. Core, continued **Hours****Entrepreneurship Concentration**

MGNT 371	Prin of Entrepreneurship	3
MGNT 372	Small Business Mgmt	<u>3</u>
		6

International Business Concentration

MGNT 364	International Bus & Econ	3
MGNT 368	Multicultural Management	<u>3</u>
		6

Marketing Concentration

BMKT 328	Sales Management	3
BMKT 424	Marketing Strategy	<u>3</u>
		6

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

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 Services, Management and Marketing.

Within two of these majors, the student may choose a concentration:

Financial Management major:

- Accounting
- Finance
- General

Management major:

- Entrepreneurship
- General Management
- Human Resource Management
- International Business

2. Bachelor of Science degree (B.S.) with majors in Business Administration and Long-Term Care Administration.
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 Services 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		<i>*Recommend to take in Junior year</i>	
ECON 225	Prin of Microeconomics	3			
FNCE 315	Business Finance	3			
MGNT 334	Principles of Management	3			
MGNT 464	Business Strategies (W)	3			

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

Required Courses		Hours	Required Cognate		Hours
	BBA Core	40	CPT 110	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 (66 Hours)

General (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 455	Fund of Investment	3
	UD Electives in Acct/Finance	12

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 455	Fundamentals of Investment	3
	UD Accounting Electives	12

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

Finance 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 455	Fund of Investment	3
	UD Finance Electives	12

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 410 Org Theory and Design	3
MGNT 420 Organizational Behavior	3
UD Business Elective	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	3
OR	3
MGNT 368 Multicultural Management	3
MGNT 364 International Busin & Econ	3
MGNT 372 Small Business Management	3
MGNT 410 Org Theory and Design	3
MGNT 420 Organizational Behavior	3
UD Management Elective	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 410 Service Marketing	3
BMKT 423 Promotional Strategy	3
BMKT 424 Marketing Strategy	3
BMKT 497 Marketing Research	3
MGNT 364 Int'l Business & Economics	3
MGNT 420 Organizational Behavior	3

Human Resource Management Concentration (61 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 460 Compensation & Benefits	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 410 Org Theory and Design	3
UD Business Elective	3

Required Cognates

COMM 330 Intercultural Communication	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	3,3
PSYC 231 Multicultural Relations	3
RELP 340 World Missions	3

Required Cognate	Hours
BUAD 345 Computer-Aided Publishing	3

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 (or above)	3
BUAD 310	Bus 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			
	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 (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	Business Communications	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 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.

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

Business Administration (40 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 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

Required Cognates	Hours
BUAD 104 Business Software	3
BUAD 128 Personal Finance	3
BUAD 221 Business Statistics	3

Public Relations (45 Hours)

Required Courses	Hours
BRDC 201 Foundations of Broadcasting	3
COMM 103 Intro to Communication	3
COMM 397 Communication Research	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
PHOT 125 Intro to Photography	3
PREL 344 Fundamentals of Advertising	3
PREL 406 Persuasion & Propaganda (W)	3
PREL 482 Public Relations Campaign	3
PREL 485 Public Relations Techniques	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 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.

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

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 Busin 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.S. Accounting (33 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 128	Personal Finance	3
BUAD 358	Eth, Socl & Legal Env Bus (W)	3
ECON 224	Prin of Macroeconomics	3
	Business Elective	3

Required Cognates

BUAD 104	Business Software	3
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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)

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

PSYC 122	General Psychology	3
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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

ECON 225	Principles of Microeconomics	3
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DEPARTMENT OF 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 40th percentile on these exams and achieve a grade of C- or above in their chemistry courses. Students who score below the 40th 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	6
CHEM 411	Physical Chemistry I (W)	4	PHYS 211-212	General Physics	
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 (41 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 341	Biochemistry I	4	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 412	Cell & Molecular Biology	4	BIOL 151,152	General Biology	8
CHEM 151-152	General Chemistry	8	BIOL 311	Genetics	4
CHEM 311-312	Organic Chemistry	8	MATH 181	Calculus I	3
CHEM 315	Quantitative Analysis	4	MATH 182	Calculus II	
CHEM 341, 342	Biochemistry	6		OR	3-4
CHEM 343	Biochemistry Lab	1	MATH 215	Statistics	
CHEM 385	Chemistry Seminar	1	PHYS 211-212	General Physics	6
CHEM 411	Physical Chemistry (W)	4	PHYS 213-214	General Physics Lab	2
CHEM 497	Intro to Research (W)	1			
	Chemistry Electives	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 151	General Biology	4
CHEM 311-312	Organic Chemistry	8	ERSC 105	Earth Science	
CHEM 315	Quantitative Analysis	4		OR	3
CHEM 341	Biochemistry	4	PHYS 155	Descriptive Astronomy: Creation and Cosmology	
CHEM 385	Chemistry Seminar	1			
CHEM 411	Physical Chemistry I (W)	4	MATH 181	Calculus I	3
CHEM 497	Intro to Research (W)	1	MATH 182	Calculus II	
				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 119) and general education requirements (31-35 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*	4
	20

**The upper division course should be carefully chosen in consultation with your adviser and a faculty member in the chemistry department to determine what course will best help you prepare for the PRAXIS exams needed for certification in chemistry. Most often this course will be either CHEM 315 Quantitative Analysis or CHEM 341 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 computer science concentration curriculum is based on the guidelines developed by the ACM, AIS, and IEEE Computing Curricula 2005. 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.

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
CPTR 103	Principles of Computing	3		MATH 181	Calculus I	3	
CPTR 124	Fund of Programming	4		MATH 215	Statistics	3	
CPTR 215	Fund of Software Design	4		MATH 280	Discrete Math Structures	3	
CPTR 220	Org, Archit, & Assembly Lang	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
CPTR 103	Principles of Computing	3		CPTR 314	Data Struc, Algor& Know Sys*	4	
CPTR 124	Fund of Programming	4		CPTR 365	Operating Systems	3	
CPTR 215	Fund of Software Design	4		CPTR 486	Senior Seminar (W)	2	
CPTR 220	Org, Arch & Assembly Lang	4		CPTR 488	Senior Project	2	

*CPTR 314 is recommended in sophomore year

Computer Science Concentration (47 Hours)

Required Courses		Hours
	Core	26
CPTR 209	Intro to Software Engineering	4
CPTR 319	Database Mgmt Systems	3
CPTR 405	Organization of Prog Lang	3
	Cptr Electives (CPHE/CPTR)	11
	(3 hrs must be UD; 8 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 151,152 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	26
CPHE 200	Digital Logic & Design	4
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 four (4) hours from the following courses: 4 BIOL 151 General Biology
CHEM 151 General Chemistry

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

Required Courses		Hours	Required Cognates		Hours
CPIS 210	Inform Tech Hardwr & Softwr	3	BUAD 126	Intro to Business	3
CPIS 442	Software Evaluation	2	JOUR 242	Intro to Web Design	3
CPT 212	Web Programming	3	MATH 120	Precalculus Algebra	3
CPT 228	Becoming a Power User	3	MATH 215	Statistics	3
CPT 254	UNIX Systems Administration	3	PSYC	Any 3 hr Psychology course	3
CPT 316	Application Software Support	3			
CPT 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	3
BUAD 105	Business Spreadsheets	3		OR	
BUAD 310	Bus Communications (W)	3	MATH 215	Statistics	3
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	CPTE 110	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			

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: Denise Dunzweiler

Faculty: Krystal Bishop, Charles D. Burks, Myrna Colon, Robert Coombs, Alberto dos Santos, Suzy Gloudeman, Ileana Freeman-Gutierrez, Michael Hills, Cathy Olson, Carleton Swafford, John Wesley Taylor V, Ruth Williams Morris

Adjunct Faculty: Linda Dickinson, Jeff Francis, Tara Hills, Jean Lomino

Teacher Education Council: Denise Dunzweiler, Chair

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 all 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)
 - Professional 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
PSYC 122 General Psychology	3
PSYC 128 Developmental Psychology	3
PSYC 227 Cognitive Psychology	3
PSYC 297 Research Design & Stats I (W)	3
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

Required Cognates	Hours
BIOL 421 Issues in Science & Soc (W)	3
RELT 373 Christian Ethics	3
MATH One math course (MATH 106 or higher)	3
Science course with lab	3-4

*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	3
	(MATH 106 or higher)
	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 (58-60 Hours)*

Psychology	37
Biology	21-23
Cognates	17
General Education	<u>47-49</u>
TOTAL	124

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	3

Select three (3) hours from the following: 3

PSYC 128	Developmental Psychology
PSYC 349	Aging and Society (W)
PSYC 422	Adolescent Psychology

Select three (3) hours from the following: 3

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

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

Required Courses Hours

Biology (21-23 hours)		
BIOL 151,152	General Biology	8
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
	OR	
CHEM 111-114	Survey of Chemistry	
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
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Strongly Recommended

AREA C

ECON 213	Survey of Economics (or equivalent)
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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, camps, outdoor schools, adventure business, therapeutic outdoor programs, and mission organizations.

Major—B.S. Outdoor Leadership (55-62 Hours)

Major	55-62
Required Cognates	17
General Education	<u>52-53</u>
TOTAL	124-132

Required Core Courses		Hours
EDOE 301	Outdoor Ministries	3
EDOE 345	Environmental Education	2
OUTL 138	Outdoor Basics	3
OUTL 391	Outdoor Education Sem (W)	1
OUTL 420	Nat & Cultural Interpretation	3
OUTL 430	Adventure Leadership	3
OUTL 492	Outdoor Education Intern	10
OUTL	Electives	10

Required Cognates		Hours
EDUC 325	Phil of Christian Educ (W)	2
ERSC 105	Earth Science	3
MATH 215	Statistics	3
PSYC 122	General Psychology*	
	OR	3
PSYC 128	Developmental Psychology*	
PSYC/OUTL 221	Challenge Course Facilitator	3
RELT 317	Issues in Physical Sci & Rlgn	3

Select two (2) or three (3) hours from the following:

OUTL 154	Wilderness First Aid	2-3
OUTL 319	First Responder	
OUTL 465	T: WEMT	

*Both classes required for Counseling Concentration

Select eighteen (18) –twenty-four (24) hours from one of the following concentrations:

Business Concentration		Hours
Select any School of Business and Management minor		18-24
Counseling Concentration		Hours
PSYC 122	General Psychology	3
PSYC 128	Developmental Psychology	3
PSYC 377	Fund of Counseling (W)	3
PSYC 422	Adolescent Psychology	3
PSYC 460	Group Processes	3
PSYC 479	Family Counseling	3
		<u>18</u>
Cultural Hours	Interpreter Concentration	
	Any HIST or GEOG courses	10
	UD HIST or GEOG courses	8
		<u>18</u>

Naturalist Concentration		Hours
BIOL 151,152	General Biology	8
Select three (3) hours from:		3
Any Ecology Course		
Select seven (7) hours from:		7
Any Botany, Ecology, or Zoology Field Courses		
		<u>18</u>
Outdoor Hours	Ministry Concentration	
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>

Public Relations/Advertising Hours	Concentration	
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
<i>Select six (6) hours from the following:</i>		6
JOUR 427	Mass Media Law & Ethics	
JOUR 488	Mass Comm & Society (W)	
PHTO 125	Intro to Photography	
PREL 354	Advertising Copywriting	
PREL 406	Persuasion & Propaganda (W)	
PREL 485	Public Relations Techniques	
		24

Recreation Hours	Concentration	
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
<i>Select six (6) hours from the following:</i>		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	
		24
Technology Concentration		Hours
Select twelve (12) hours lower division Technology classes		12
Select six (6) hours upper division Technology classes		6
		18

Minor—Outdoor Leadership (19 Hrs)

Required Courses	Hours
EDOE 301	Outdoor Ministries 3
EDOE 345	Environmental Education 2
OUTL 138	Outdoor Basics 3
OUTL 356	Outdoor Field Experience 3
	Outdoor Leadership Electives 8

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. 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.

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 adviser by the Records and Advisement Office. The advisers assist in planning a student's academic program each year and guide their advisees through the stages of the Teacher Education Program. Advisers and advisees should work closely to follow the professional sequence of courses.

Students assume responsibility for making necessary applications, meeting the requirements, and other relevant deadlines.

At the time of a student's Initial Admission to the Teacher Education Program, 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.

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 physical, mental, spiritual and moral fitness
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 adviser as part of the application process
8. Present a beginning professional portfolio to the Teacher Education Faculty
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 academic standard 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 secretary 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 good physical and mental health
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 (adviser and recent education professor)
 - Self-assessment instrument
 - Typed essay on the kind of teacher he/she desires to become
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

Teacher candidates who meet the above criteria are approved by the School of Education Faculty and recommended to the Teacher Education Council. Candidates are informed in writing as to the status of their application 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 adviser as he/she interacts with his/her advisees during advisement sessions.

Secondary majors have an adviser 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 teacher education are explicit, but allow for second chance attempts. Courses may be repeated to raise GPA or students may follow the Grievance Procedures found under Academic Policies (page 49). Also, students who do not meet all the criteria required to do Student Teaching may appeal to the Teacher Education Council. Any applicant who determines to follow this alternative policy must seek counsel from the Dean of the School of Education and Psychology.

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, consists of ongoing monitoring and feedback. The cooperating teacher conducts informal conferences as well as a one-hour weekly formal conference providing anecdotal records. A formative evaluation is completed by the University supervisor and the cooperating teacher at midpoint of each placement.

Phase Two, Summative Evaluation, is completed by both the cooperating teacher and the University supervisor. Performance assessments used are the Student Teaching Summative Evaluation 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, emotional stability, 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's performance is decided by 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 practicum.

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	3 hours
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 advisers for guidance in the selection of general education courses that are appropriate to their individual needs. Relevant courses are listed in this *Catalog* under the seven main areas of the General Education requirements, pages 31-35.

2. Professional Education:

Elementary: The elementary program with the degree requirements is listed on page 121 of this *Catalog*.

Secondary: The following courses are required for secondary teaching certification. In order to be eligible for certification, students 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 Literacy 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 121 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 student 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.
- Students 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 constantly being refined to meet any and all 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 students must meet any and all such 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	<u>43</u>
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 115	Introductory Chemistry	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 115; 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 (43 Hours)

EDUC 129	Intro/Found Elem Education	3
EDUC 320	Emergent Literacy	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 (43 Hours)

EDUC 426	K-2 Multiage Methods	2
EDUC 450	Rdg Assessment & Instruc	3
EDUC 458	K-6 Tchg Meth & Strategies	6
EDUC 463	Small Schools Seminar	2
EDUC 464	Teaching Seminar	2
EDUC 465	Pre-Session Practicum	1
EDUC 471	Enhanced Student Tchg K-6	10

Minor—Education (18 Hours)

Required Courses	Hours
<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 220	Growth Years
EDUC 217	Psyc Foundations of Education

Required Courses, continued	Hours
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	Adolescent Psychology

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 118.

Program for Elementary Endorsement for Individuals Meeting Requirements for Secondary Certification

Twenty-four (24) to twenty-six (26) 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 455 Bible Methods* 2
 - EDUC 457 Social Studies Methods* 2
2. Six semester hours to include three of the following four areas:
 - ART 230 Intro to Art Experiences..... 2
 - EDUC 454 Science and Health Methods* 2
 - MUED 231 Music and Movement..... 2
 - PETH 463 Elementary School PE Methods..... 2
3. Two semester hours must be in Education of Exceptional Children if not previously successfully completed. 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 463 Small Schools Seminar
 - HLED 173 Health for Life
4. Two semester hours of student teaching.
 - *Can be met by EDUC 458 K-6 Teaching Methods and Strategies 6

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:
 - a. EDUC 434 Literacy in the Content Areas
 - b. EDUC 437 or EDUC 438 Curriculum and General or Content Methods
 - c. 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

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 transfer to the Walla Walla University School of Engineering, with which Southern Adventist University is affiliated, for the final two years. Southern Adventist University awards an Associate of Science degree in Engineering Studies. Walla Walla University, located in Washington State, awards a Bachelor of Science in Engineering degree with concentrations in civil, electrical, and mechanical engineering and a pre-professional Bachelor of Science degree in bioengineering.

The WWU School of Engineering offers a high quality program that is fully accredited by the Accreditation Board for Engineering and Technology—the only nationally recognized organization which accredits engineering programs. It has an enrollment of approximately 250 students, many of whom are transfer students from affiliated Seventh-day Adventist colleges or universities.

The Southern Adventist University affiliation with Walla Walla University makes the transition to the final two years of the baccalaureate engineering program essentially the same as if the first two years were taken there. Even though transfer to Walla Walla University is simpler than to a non-affiliated school, the Southern Adventist University engineering studies program is compatible with baccalaureate engineering programs of many colleges and universities.

Assessment

The engineering studies program is designed to parallel the first two years of the baccalaureate engineering degree at Walla Walla University. It is regularly assessed by means of one or two campus visits each year by engineering faculty from their College of Engineering.

Program in Engineering Studies

Major—A.S. Engineering Studies (33 Hours)

Required Courses		Hours	Required Courses, continued		Hours
ENGR 121	Intro to Engineering	1	PHYS 211-212	General Physics	6
ENGR 149	Intro to Mech Drwg & CADD	3	PHYS 213-214	General Physics Lab	2
ENGR 211	Eng Mech: Statics	3	PHYS 215-216	Gen Physics Calc App	2
ENGR 212	Eng Mech: Dynamics	3	Required Cognates		Hours
MATH 181	Calculus I	3	CHEM 151-152	General Chemistry	8
MATH 182	Calculus II	4	CPTR 124	Fund of Programming	4
MATH 200	Elem Linear Algebra	2			
MATH 218	Calculus III	4			

The total number of hours for the A.S. degree in engineering studies is 64. Students who plan to continue their education at an engineering school other than Walla Walla University should take that school's *Catalog* to the engineering adviser for guidance in selecting general education courses.

DEPARTMENT OF ENGLISH

Chair: Jan Haluska

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

English

The English Department offers two categories of classes that view man'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 31-35). 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 Department of English 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 do a written evaluation of departmental programs. Results provide information used to improve departmental programs.

Programs in English Language and Literature

Major—B.A. English (30 Hours)

Required Courses	Hours	Required Courses, continued	Hours	
ELIT 214	Survey of American Lit	3	<i>Select twelve (12) hours from the following : 12</i>	
ELIT 215	Survey of English Lit	3		
ELIT 216	Approaches to Literature	3		
ELIT 445	Ancient Classics (W)	3		
ENGL 313	Expository Writing (W)	3		
	OR			
ENGL 314	Creative Writing (W)	ELIT 323 19th-Century Amer Lit (W) ELIT 332 Studies in Medieval Lit (W) ELIT 333 Studies in Renaissance Lit (W) ELIT 337 19th-Century Brit Lit (W) ELIT 338 Twentieth-Century Writers (W) ELIT 368 Studies in Milton (W) ELIT 417 World Lit in Translation (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		
ENGL 316	Modern Engl Gram & Ling			3

Majors may substitute a journalism writing class or English topics course for one English elective.

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

Students planning to obtain educational certification will need to include the required professional education courses and additional General Education requirements in their program as outlined in the Education and Psychology section of this *Catalog*. Students preparing for secondary teacher certification must also take ENGL 430. English majors who minor in journalism or public relations are eligible for internships through the School of Journalism and Communication.

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 (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	English Methods	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 304	Grammar & Ling for Elem Tch	
	OR	3
ENGL 316	Modern Engl Gram & Ling	
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 Computer Based Test (CBT) scores are between 133-212, or whose TOEFL Internet Based Test (IBT) scores are between 45-79 or whose English ACT score is below 17 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 (CBT 133; IBT 45) have not met admissions requirements and hence are ineligible to take classes in the English Department.

Southern Adventist University offers an ESL 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 (CBT 133-151; IBT 45-52) (EESL 031,041,051)

2—475-499 (CBT 152-172; IBT 53-60) (EESL 032,042,052)

Advanced Level:

1—500-524 (CBT 173-195; IBT 61-70) (EESL 121,131)

2—525-549 (CBT 196-212; 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 (CBT 152; IBT 53) (EESL 031,041,051)

2—500 (CBT 173; IBT 61) (EESL 032,042,052)

Advanced Level:

1—525 (CBT 196; IBT 71) (EESL 121,131)

2—550 (CBT 213; 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	

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.*

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

DEPARTMENT OF HISTORY

Chair: Benjamin McArthur

Faculty: Lisa Clark Diller, Mark Peach, Dennis Pettibone

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 the spring 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, by 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
(American History)			(European History)		
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 th 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	
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.

Denominational Certification in History

A non-history major planning to obtain denomination teaching certification in history must take the following 18 hours of classes: HIST 154, 155, 174, 175, PLSC 254, and either GEOG 204 or PLSC 224. A student wishing a minor in history must take an additional six hours of upper-division history courses.

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 214.

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)

Required Courses	Hours		
ELIT 445	Ancient Classics (W)	3	<i>Select three (3) hours from the following:</i> 3
HIST 471	Classics of Wstrn Thought I (W)		
	OR	3	
HIST 472	Classics of Wstrn Thought II (W)		
HIST 295/495	Directed Study	1	
HMNT 205	Arts and Ideas	3	
HMNT 210	Introduction to Philosophy	3	
HMNT 451	Honors Seminar	1	
HMNT 452	Honors Seminar	1	

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 Department of History 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 & COMMUNICATION

Dean: Greg Rumsey

Faculty: Lorraine Ball, A. Laure Chamberlain, Denise R. Childs, Linda Potter Crumley, 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 & 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 & Communication, acceptance to the School is required. Declaration as a major is not the equivalent to acceptance to the School of Journalism & Communication. Minimum requirements for admission to the School of Journalism & Communication are:

- Acceptance to Southern Adventist University
- A minimum English ACT score of 17 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 & Communication should apply for admission at the end of the freshman year (24-32 hours). Declared School of Journalism & 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 & 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 Print Journalism, a Bachelor of Science Degree in Mass Communication, Nonprofit Administration and Development, 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) Print 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 **Print 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.

Southern Adventist University's **Nonprofit Administration and Development** degree is designed to meet the demand for entry-level managers with fund development expertise.

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 & Communication, and fulfills General Education requirements.

Residency

All baccalaureate degrees offered by the School of Journalism & Communication require that at least 12 upper division hours of the respective degree requirements must be taken at Southern Adventist University.

American Humanics Certification

The Nonprofit Administration and Development program is affiliated with **American Humanics, Inc.**, in Kansas City, MO, which offers certification for students who graduate with this degree. American Humanics is an alliance of colleges, universities, and nonprofit organizations preparing undergraduates for careers with youth and human service agencies through specified curriculum, co-curricular activities, and internships. American Humanics focuses on leadership and service to humanity, professionalism, measurable competencies, and certification.

American Humanics' mission is "to prepare and certify future nonprofit professionals to work with America's youth and families." American Humanics is affiliated with national nonprofit partners including:

- American Red Cross
- Big Brothers Big Sisters of America
- Boys & Girls Clubs of America
- Boy Scouts of America
- Camp Fire Boys and Girls
- Girls Incorporated
- Girl Scouts of the U.S.A.
- Habitat for Humanity International
- Junior Achievement Inc.
- National Network for Youth
- Special Olympics, International
- United Way of America
- Volunteers of America
- YMCA of the U.S.A.
- YWCA of the U.S.A.
- and other nonprofits

Certification is not automatic with the completion of the degree; American Humanics certification requires competencies in the following:

- career development
- communication
- personal leadership attributes
- historical and philosophical foundations
- youth and adult development
- board/committee development
- fund-raising principles and practices
- human resource development and supervision
- general nonprofit management
- nonprofit accounting and financial management
- nonprofit public relations
- program planning
- risk management

Besides nonprofit certification, the American Humanics certification program offers the following:

- one-to-one mentoring
- networking with prospective employers
- opportunity to “try out” various nonprofit roles
- potential for references and referrals
- exposure to national nonprofit network
- scholarships

American Humanics Certification for Other Majors

Certification in American Humanics for students majoring in other areas is also available. Certification can be attained by means of the Nonprofit Leadership minor. To make arrangements and apply for certification, contact the campus director.

American Humanics Assessment

Assessment will take place through the American Humanics certification process and with internship and practicum supervisors.

Job Outlook

Because of the decline in government support of nonprofit, it is more valuable than ever that nonprofit managers have fund development skills. The B.S. in Nonprofit Administration and Development degree is designed to provide both training and internships in fund development as well as in management.

The demand for graduates with these competencies is high with an estimated 50,000 needed annually to fill new staff vacancies. More than one million nonprofit organizations are at work across the country, employing 9 million people and aided by nearly 90 million volunteers.

Meet The Firms

Meet the Firms is a program sponsored by the School of Journalism & 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, advisers will recommend any needed remediation, which students must complete before registering for other writing courses offered by the School.

School effectiveness will be assessed by combining the results of the cumulative evaluations, student evaluations of courses, and questionnaires completed by 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	Required Courses continued		Hours
BRDC 201	Foundations of Broadcasting	3	COMM 397	Communication Research	3
BRDC 202	Digital Audio Production	3		OR	
BRDC 227	TV Studio Production	3	JOUR 488	Mass Comm & Society (W)	3
BRDC 314	Broadcast News Writing (W)	3	JOUR 105	Writing for the Media	
BRDC 327	Digital Video Production	3	JOUR 205	News Reporting	3
BRDC 417	Electronic Media Mgmt	3	JOUR 427	Mass Media Law & Ethics	3
BRDC 426	TV News Reporting & Perform	3			

Major—B.A. Broadcast Journalism (33 Hours), continued

Required Cognates		Hours	Recommended Electives		
COMM 103	Intro to Communication	3	ARTG 115	Intro to Computer Graphics	3
ECON 213	Survey of Economics	3	COMM 330	Intercultural Comm (W)	3
JOUR 208	Publication Tools & Tech	3	HMNT 205	Arts & Ideas	3
JOUR 242	Intro to Web Design	3	JOUR 492	Internship:Broadcasting	3
PLSC 254	Amer National & State Govt	3	MATH 215	Statistics	3
	Intermediate foreign language	6			

Major—B.A. Print 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	Required Cognates		Hours
JOUR 105	Writing for the Media	3	COMM 103	Intro to Communication	3
JOUR 205	News Reporting	3	COMM 397	Communication Research	3
JOUR 208	Publication Tools & Tech	3	ECON 213	Survey of Economics	3
JOUR 242	Intro to Web Design	3	HMNT 205	Arts & Ideas	
JOUR 313	Publication Editing	3		OR	3
JOUR 315	Photojournalism	2	SOCI 150	Cultural Anthropology	
JOUR 316	Mag & Feature Art Writing (W)	3	PLSC 254	American Nat & State Gov	3
JOUR 356	Advanced Reporting (W)	3		Literature Electives	3
JOUR 427	Mass Media Law & Ethics	3		Inter level Foreign language	6
JOUR 488	Mass Comm & Soc (W)	3			
PHOT 125	Intro to Photography	3			
			Recommended Electives		
			JOUR 492	Journalism Internship	
				OR	1-3
			JOUR 391	Journalism Practicum	
			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	<i>Select nine (9) hours from the following courses: 9</i>		
JOUR 427	Mass Media Law & Ethics	3	ARTH 345	Contemporary Art (W)*	
JOUR 488	Mass Comm & Soc (W)	3	ELIT 445	Ancient Classics (W)*	
PREL 235	Public Rel Principles & Theory	3	HIST 356	Natives & Strangers (W)	
RELT 458	World Religions (W)	3	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	

Select one (1) from the following courses:

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.

**Satisfies humanities component for International Studies*

Major—B.A. Intercultural Communication (31-33 Hours), continued**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 (49-55 Hours)

Required Courses		Hours	Required Cognates		Hours
BRDC 201	Foundations of Broadcasting	3	<i>Select nine (9) hours from the following courses:</i> 9		
COMM 103	Intro to Communication	3	ACCT 103	College Accounting	
JOUR 105	Writing for the Media	3	ART 109	Design Principles	
JOUR 205	News Reporting	3	ARTI 115	Intro to Interactive Media	
JOUR 208	Publication Tools & Tech	3	BUAD 126	Intro to Business	
JOUR 242	Intro to Web Design	3		OR	
JOUR 427	Mass Media Law & Ethics	3	MGNT 371	Principles of Entrepreneurship	
JOUR 488	Mass Commun & Society (W)	3	CPT 107	Intro to Database	
PHTO 125	Intro to Photography	3	COMM 412	Preparing to Meet the Firms	
PREL 235	PR Principles & Theory	3	TECH 244	Graphic Production	
	Concentration	19-25			

**Electives:* In consultation with your adviser choose 19-25 hours of electives within one of the following concentrations. Your selections must include at least 1.2 hours of upper division credit with most selected from JOUR/PREL courses.

Advertising Concentration (52 Hours)

	Mass Communication Core	30
	Advertising Core	
COMM 397	Communication Research	3
PREL 244	Sales	2
PREL 344	Fundamentals of Advertising	3
PREL 354	Advertising Copywriting	2
PREL 406	Persuasion & Propaganda (W)	3

Select nine (9) hours from the following: 9

ARTG 210	Vector Graphics	
ARTG 212	Raster Graphics	
ARTG 332	Advertising Design	
BMKT 326	Principles of Marketing	
BMKT 327	Consumer Behavior	
COMM 330	Intercultural Communication (W)	
PHTO 315	Photojournalism	
PREL 391	Practicum	
PREL 492	Internship	

Media Production Concentration (52 Hours)

	Mass Communication Core	30
	Media Production Core	
ARTF 215	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)	

Select three (3) hours from the following: 3

ARTI 230	Sound Design	
BRDC 391	Practicum	
BRDC 417	Electronic Media Management	
BRDC 492	Internship	

New Media Concentration (53 Hours)

	Mass Communication Core	30
	New Media Core	
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

Select five (5) hours from the following: 5

BRDC 202	Digital Audio Production	
CPTR 446	Web Services	
JOUR 313	Publication Editing	
JOUR 492	Internship	
PREL 391	Practicum	

Photography Concentration (56 Hours)

	Mass Communication Core	30
	Photography Core	
ARTF 215	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 315	Photojournalism	3
PHTO 320	Digital Photography	3
PHTO 391	Photojournalism Practicum	1

Select six (6) hours from the following: 6

BRDC 327	Digital Video Production	
JOUR 391	Practicum	
JOUR 465	Topics in Journalism	
PHTO 492	Photography Internship	

Major—B.S. Mass Communication (49-55 Hours), continued**Writing/Editing Concentration (49 Hours)**

	Mass Communication Core	30
	Writing/Editing Core	
COMM 397	Communication Research	3
JOUR 313	Publication Editing	3
JOUR 316	Mag & Feature Article Wrtg (W)	3
JOUR 356	Advanced Reporting (W)	3

Select seven (7) hours from the following: 7

BRDC 314	Broadcast News Writing (W)
COMM 315	Scriptwriting (W)
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 354	Advertising Copywriting

B.S. Nonprofit Administration and Development (46 Hours)**Required Courses Hours**

COMM 336	Interpersonal Comm	3
COMM 397	Communication Research	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
PREL 233	Intro to the Nonprofit Sector	3
PREL 235	PR Principles & Theory	3
PREL 344	Fund of Advertising	3
PREL 368	Fund Development	3
PREL 370	Amer Humanics Mgmt Instit	1
PREL 406	Persuasion & Propaganda (W)	3
PREL 482	The PR Campaign	3
PREL 485	PR Techniques	3
PREL 498	American Humanics Intern	3
PREL/COMM	UD Elective	3

Required Cognates Hours

Accounting & Management		
ACCT 103	College Accounting	3
MGNT 334	Principles of Management	3
MGNT 344	Human Resource Mgmt	3
MGNT 354	Principles of Risk Mgmt	3
MGNT 371	Princ of Entrepreneurship	3

Required Cognates, continued Hours

Child & Human Development		
(Choose 1)		
PSYC 128	Developmental Psychology	3
PSYC 224	Social Psychology	
PSYC 422	Adolescent Psychology	
Human Services & Social Work		
(Choose 1)		
SOCW 211	Intro to Social Work	3
SOCW 212	Social Welfare as an Institution	
SOCI 230	Multicultural Relations	
SOCI 365	Family Relations	

Recommended Electives

HLNT 135	Nutrition for Life	3
HLED 476	Wellness Meth, Mat & Mgmt	3
PEAC 262	Intro to Camping	1
REL P 251	Intro to Youth Ministry	3
RELT 373	Christian Ethics	3
RELT 458	World Religions (W)	3
RELT 467	Christian Phil & Worldview (W)	3

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

COMM 103	Intro to Communication	3
COMM 397	Communication Research	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
JOUR 427	Mass Media Law & Ethics	3
PHOT 125	Intro to Photography	3
PREL 233	Intro to the Nonprofit Sector	3
PREL 235	Public Rel Principles & Theory	3
PREL 344	Fund of Advertising	3
PREL 406	Persuasion & Propaganda (W)	3
PREL 482	Public Relations Campaign	3

Required Courses, continued Hours

PREL 485	Public Relations Tech	3
PREL 492	Public Relations Internship	
	OR	3
	UD Journ/Comm Elective	

Required Cognates Hours

FREN/GRMN	Elementary Foreign Lang	6
ITAL/SPAN		
ACCT/BUAD	Business Elective	3
ECON/FNCE/	(Upper division recommended)	
MGNT/BMKT		

Strongly Recommended Electives

COMM 336	Interpersonal Commun	3
PHOT 315	Photojournalism	2-3
PREL 368	Fund Development	3
	Intermediate Foreign Lang	6

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

Public Relations (45 Hrs)

Required Courses	Hours
BRDC 201	Foundations of Broadcasting 3
COMM 103	Intro to Communication 3
COMM 397	Communication Research 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
PHOTO 125	Intro to Photography 3
PREL 344	Fund of Advertising 3
PREL 406	Persuasion & Propaganda (W) 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 adviser in their first-chosen major and a secondary adviser in the other major.

Business Administration (40 Hrs)

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 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

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

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

New Media Concentration

Select twelve (12) hours from the following: 12

ARTG 226	Digital Imaging
CPT 110	Intro to Web Development
CPT 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
PHOTO 315	Photojournalism

Minor—Advertising (18 Hours)

Required Courses	Hours
PREL 244	Sales 2
PREL 344	Fundamentals of Advertising 3
PREL 354	Advertising Copywriting 2

Required Courses, continued	Hours
Select eleven (11) hours from the following: 11	
ARTG 332	Advertising Design
BMKT 326	Principles of Marketing
BMKT 328	Sales Management
COMM 103	Intro to Communication
COMM 330	Intercultural Communication (W)
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
Select three (3) hours from the following: 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 Comm (W)	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—Nonprofit Leadership (22 Hours)

Required Courses		Hours
ACCT 103	College Accounting	3
MGNT 334	Principles of Management	3
MGNT 344	Human Resource Mgmt	3
PREL 233	Intro to Nonprofit Sector	3
PREL 368	Fund Development	3
PREL 370	Amer Humanics Mgmt Inst	1
PREL 482	The PR Campaign	3
PREL 498	American Humanics Intern	3

Cognate for American Humanics Certification		Hours
SOCW 211	Intro to Social Work	3

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 291/391	Practicum	
BRDC 227	TV Studio Production	
BRDC 327	Digital Video Production	
COMM 326	Film Evaluation (W)	

Minor—Public Relations (18 Hours)

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

Minor—Sales (19 Hours)

Required Courses		Hours
BMKT 327	Consumer Behavior	3
BMKT 328	Sales Management	3
COMM 103	Intro to Communication	3
PREL 244	Sales	2
PREL 344	Fundamentals of Advertising	3
PREL 354	Advertising Copywriting	2

Required Courses, continued **Hours**

Select nine (9) hours which three (3) hours must be upper division: 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
PREL 406	Persuasion & Propaganda (W)
PREL 485	Public Relations Techniques

Required Courses, continued **Hours**

Select three (3) hours from the following: 3

BMKT 375	International Marketing
PREL 291/391	Practicum: Sales
PREL 406	Persuasion & Propaganda (W)

DEPARTMENT OF MATHEMATICS

Chair: Kevin Brown

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

Adjunct Faculty: Al Morford

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

Within a Christian environment of learning, 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	Option 1		
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	Option 2		
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 27-28 and 31-35 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 119) 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 Education and Psychology section, beginning on page 108.

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

DEPARTMENT OF MODERN LANGUAGES

Chair: Carlos H. Parra

Faculty: Carmen Jiménez, 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; and in Mexico, Universidad de Montemorelos.

Major Programs

Degrees. B.A. French, International Studies, Spanish, French and Spanish Teaching.

Placement Level. Students who intend to enroll in a French or Spanish language course, who have had any background in the language must take the “Placement Examination.”

Exceptions. Students who are native speakers or who have otherwise acquired advanced language proficiency are encouraged to take the “Challenge Examination” offered by the department. Otherwise, students with no background in a language must begin at the 101 level.

Departmental Majors. The Modern Languages Department offers language courses to satisfy the B.A. language requirement. A major in International Studies with emphasis in Spanish, French, German or Italian is offered. Majors in French, Spanish, and French or Spanish Teaching are also offered.

Students planning majors or minors should contact the department early in their studies for a list of required courses. Those students with questions about their major or minor should refer to the *Catalog* and/or contact Modern Languages faculty. Those students with transferred language credit from another college or university should meet with a faculty adviser early in their studies regarding major or minor course equivalents.

Students must earn a grade of C or better in all course work that is to count toward a department major or minor.

Departmental Minors. The department offers minors in 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 a Modern Languages Department faculty upon returning to SAU. 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 International Studies majors in Spanish or French MUST take from the Modern Languages Department at SAU, two (2) upper division courses upon returning from ACA and before graduation. These students will earn a minimum grade of “C” (2.00) in these courses. 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 SAU. 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 five (5) upper division courses from the Modern Languages Department at SAU, 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	
Required Courses				OR	
<i>Select 27 hours from the following:</i>		27	ARTH 349	Medieval Art History	
FREN 207	Intermediate French I		HIST 471	Classics of Wstrn Thought I (W)	
FREN 208	Intermediate French II		HIST 472	Classics of Wstrn Thought II (W)	
FREN 244	French Comp & Conv				
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				
FREN 358	Survey Fren 17 th & 18 th Cent Lit				
FREN 458	Survey Fren 19 th & 20 th Cent Lit				
FREN 459	Francophone Cultures & Lit				

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 358	Surv Fren 17 th & 18 th Cent Lit	
FREN 208	Intermediate French II	3	FREN 458	Surv Fren 19 th & 20 th Cent Lit	
FREN 244	French Comp & Conv	3	FREN 459	Francophone Cultures & Lit	
FREN 344	Adv French Comp & Conv	3			
FREN 350	French Linguistics	3	<i>Select three (3) hours from the following:</i>		3
FREN 353	Contemp Fren Culture & Civ	3	ARTH 342	Renaissance Art History (W)	
FREN 357	Survey Fren Med & Ren Lit	3	ARTH 349	Medieval Art History (W)	
FREN 490	Comprehensive Exam Prep	1	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	Required Courses, continued	Hours
ELIT 216	Approaches to Literature		3
SPAN 207	Intermediate Spanish I		3
SPAN 208	Intermediate Spanish II		3
SPAN 243	Spanish Comp & Conv		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 457	Latino Literature (W)		3
SPAN 458	Mexican-American Lit (W)		3
SPAN 490	Comprehensive Exam Prep		1
		<i>Select six (6) hours from the following:</i>	6
		HIST 351	Colonial Latin America (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	Required Courses continued	Hours
ELIT 216	Approaches to Literature		3
SPAN 207	Intermediate Spanish I		3
SPAN 208	Intermediate Spanish II		3
SPAN 243	Spanish 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 457	Latino Literature (W)		3
SPAN 458	Mexican American Lit (W)		3
SPAN 490	Comprehensive Exam Prep		1
		<i>Select three (3) hours from the following:</i>	3
		HIST 351	Colonial Latin America (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
<ul style="list-style-type: none"> • Elementary level of language (French, German, Italian or Spanish) prior to travel to ACA is strongly recommended 	6 hours
<ul style="list-style-type: none"> • 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 SAU)	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	
SPAN 207	Intermediate Spanish I	3
SPAN 208	Intermediate Spanish II	3
*SPAN 261	Interm Spanish Composition	
*SPAN 271	Interm Span Conversation	
*SPAN 351	Adv Spanish Grammar	
*SPAN 361	Adv Spanish Composition	
*SPAN 371	Adv Spanish Conversation	

ACA in Spain:

- *SPAN 312 Spain and Its Culture
- *SPAN 331 History of Spanish Lit

ACA in Argentina:

- *SPAN 332 Latin American Literature
- *SPAN 342 History of Argentina

**See Adventist Colleges Abroad Catalog for course descriptions*

Minor— French (18 Hours)

Required Courses		Hours
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)

Required Courses		Hours
207-208	Intermediate Language	6
	UD Language Courses	6
	Elective Language Courses	6

Minor— Italian (18 Hours)

Required Courses		Hours
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)

Required Courses		Hours
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	3
SPAN 356	Survey of Span-Amer Lit	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 SAU 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, John Burroughs, Jan Cochrane, Patricia Dusold, Laura Elder, Robert Hansel, Gordon James, Elaine Janzen, Nora Kile, Adrienne Olson, Mark Reneau, Sherilyn Samaan, Clinton Schmitt, Patricia Silver, James Stroud, Nikolasa Tejero

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.

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.

Applied Music Credit

One semester hour of credit will be given for twelve half-hour lessons with a minimum of four hours of practice per lesson. Performance Concentration grades are assigned following a jury examination at the end of each semester.

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 four 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=eight 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 four 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=eight 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 (34 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

Vocal/General Endorsement (28-32 Hours)

A. Voice Concentration (28)

Applied Concentration	14 hours
Appropriate Ensemble(s)	8 hours
MUED 317 Voice Pedagogy	2 hours
MUPF 225 Singers Diction I	2 hours
MU Elective.....	2 hours

B. Keyboard Concentration (32)

Applied Concentration (Piano or Organ)	14 hours
Applied Music (Voice).....	4 hours
Appropriate Ensembles	8 hours
MUED 317 Voice Pedagogy	2 hours
MUPF 279 Service Playing (Organ majors)	
OR	1,1 hours
MUPF 289 Accompanying (Piano majors)	
MUED 316 Piano Pedagogy	
OR	2 hours
MUED 318 Organ Pedagogy.....	

Instrumental Endorsement (32 Hours)

Concentration (one instrument: wind, string, or percussion)	14 hours
Applied Music	
(one instrument from family outside of concentration 1,1).....	2 hours
Appropriate Ensembles	8 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

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 Literacy 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 (46-60 Hours)**Music Core (35 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
MUHL 118	Music Styles & Repertoires	2
MUHL 320	Music of Mid Ages & Ren (W)	2

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

General Track (11 Hours)

Required Courses		Hours
MUPF 189	Concentration	4
MUPF 389	Concentration	4
	UD Theory Elective	3

Music Theory and Literature Track (16 Hours)

Required Courses		Hours
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

Cognate Requirement		Hours
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.

Required Courses		Hours
MUPF 189	Concentration	8
MUPF 389	Concentration	8
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

For Piano Majors (4 Hours)		4-6
MUED 316	Piano Pedagogy (2)	
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.

Required Courses		Hours	Select one (1) of the following courses:		2
MUCT 111-112	Music Theory I and II	3,3	MUHL 320	Music of Mid Ages & Renaiss	
MUHL 118	Musical Styles and Rep	2	MUHL 321	Music of Late Ren & Baroque	
MUPF 189	Concentration	1,1	MUHL 322	Classic & Romantic Music	
MUPF 273	Basic Conducting	1	MUHL 323	Music in the 20 th Century	
MUPF 389	Concentration	1,1			
*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, and 389 will be charged \$150 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, Dana Krause, Sylvia Mayer, Callie McArthur, Christine Moniyung, Christy Showalter, Elizabeth Snyder, Jillian Wills, Judy Winters

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.

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 National League for Nursing Accrediting Commission (NLNAC) may progress into baccalaureate 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 Associate of Science 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 National Council Licensure Examination (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 baccalaureate and masters level course work in a condensed program of five to six full-time semesters. Accelerated program emphases include Adult and Family 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.

Policies

The SON has a zero tolerance policy with respect to illicit drug use. Students will be randomly 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 Tennessee Board of Nursing (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.

Accreditation

The programs in nursing are fully accredited by the National League for Nursing Accrediting Commission (61 Broadway, New York, NY 10006, (212)363-5555, ext. 153). They are approved by the 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 NCLEX-RN examination. The TBN requires an annual pass rate of 85% or higher on the NCLEX-RN for a school to maintain approval.

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 111	Survey of Chemistry I	3
NRSG 305	Adult Health III	4	CHEM 112	Survey of Chemistry II	3
NRSG 309	Nursing Seminar	4	RELT 373	Christian Ethics	3
NRSG 316	Applied Statistics for Hlth Prof	3	SOCI 349	Aging and Society (W)	3
NRSG 322	Transitions in Prof Nrsng	3	Required General Education**		Hours
NRSG 328	Nursing Assessment	3	Area B, Religion		3
NRSG 340	Community Hlth Nursing (W)	5	Area C-1, History		3
NRSG 389	Nursing Pharmacology	3	Area C or D		3
NRSG 434	Pathophysiology	3	Area G-3, PE		1
NRSG 485	Nursing Leadership & Mgmt	3			
NRSG 491	Senior Nursing Practicum	2			
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 (37 Hours)

Required Courses		Hours	Required Cognates		Hours
NRS 106	Fundamentals I	4	BIOL 101-102	Anatomy & Physiology	8
NRS 107	Fundamentals II	4	BIOL 225	Basic Microbiology	4
NRS 126	Adult Health I	4	NRNT 125	Nutrition	3
NRS 130	Mental Health	4	PSYC 128	Developmental Psychology	3
NRS 191	Nursing Practicum	1	Required General Education		
NRS 212	Childbearing Family	4	COMM 135	Intro to Public Speaking	3
NRS 226	Adult Health II	4	ENGL 101-102	College Composition	6
NRS 231	Child Health	4		Area A-2, Math (if needed)	3
NRS 305	Adult Health III	4		Area A-4, Cptr Competencies (or waiver)	3
NRS 309	Nursing Seminar	4		Area B, Religion	6
			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 and cognate G.P.A., ACT scores, university courses completed, adviser 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. Two semesters of high school chemistry with a minimum grade of "B" or CHEM 111 with a minimum grade of "C."
2. ACT scores with a minimum standard enhanced Math score of 16 (if less than 16, a college math course is required); 20 in Reading (or Nelson-Denny); and 19 in English (if less than 19, an English class 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 in nursing cognate and solid courses (math, science, English, history, foreign language) is required before consideration for clinical nursing courses is given.
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.
4. An interview with the BS program coordinator or designee, if requested.
5. Experience: Documentation of clinical experience (satisfactory work performance recommendation), and/or RN Update or additional clinical experience may be required.
6. Nursing Credits: Graduates of NLNAC accredited AA/AS and Diploma Nursing Programs: When entering the baccalaureate nursing program, a transfer student will have placed in escrow 29 credits of associate degree level nursing and eight (8) credits of upper division nursing (NRS 305,309). 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 Competency provided that the GPA is 2.5 or above. If ENGL 101, 102, COMM 135, PEAC 225, math and computer competency requirements were not included in the associate degree program, they must be taken in fulfillment of the Bachelor of Science 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 associate degree level must be completed before entering baccalaureate nursing courses. General Education requirements may be taken concurrently.

8. Students in third semester associate 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 associate and baccalaureate nursing and if approved by BS faculty and student adviser.

Progression Requirements

Associate Degree

1. A minimum grade of “C+” (2.30) is required in each nursing course for progression with a cumulative GPA of 2.30 in nursing and a 2.50 overall GPA on a 4.00 scale for graduation.
2. A minimum grade of “C” is required in each nursing cognate. Cognate courses are BIOL 101, 102; NRNT 125; PSYC 128; BIOL 225.
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. Students who do not complete a semester or progress with their class, cannot be assured placement in their choice of a subsequent course.
6. 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.
7. 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.
8. 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”.

Baccalaureate Degree

1. A minimum grade of “C” (2.00) is required in each nursing and cognate course for progression. Cognate courses are CHEM 111, 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. Apply for acceptance to Southern Adventist University.
2. Submit a nursing reapplication form to the SON.

3. A cumulative grade point average of 2.50 on a 4.00 scale is required for readmission to the nursing program.
4. Specified requirements as set forth by the SON relating to the individual applicant must be met.
5. A personal interview with a designated nursing faculty member is required.
6. If a lapse of time greater than two years occurs in a student's AS program, prior nursing credits will not be accepted unless an applicant can validate nursing knowledge and skills through written examination and clinical performance.
7. Students will be readmitted on a space available basis.

SCHOOL OF PHYSICAL EDUCATION, HEALTH AND WELLNESS

Dean: Phil Garver

Faculty: Robert Bengé, 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 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 adviser.

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	Required Cognates		Hours
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	3
EDUC 138	Intro to and Foundations of Secondary Education	3
EDUC 217	Psychological Foundations of Education	2
PSYC 128	Developmental Psychology	
	OR	3
EDUC 220	Growth Years	
EDUC 319	Technology in Education.....	3
EDUC 325	Philosophy of Christian Education (W)	2
EDUC 421	Behavior Management Elementary	
	OR	2
EDUC 422	Behavior Management Secondary	
EDUC 434	Literacy in the Content Areas.....	2
EDUC 464	Teaching Seminar	2
EDUC 472	Enhanced Student Teaching K-12.....	10
HLED 473	Health Education Methods	2
PETH 363	Intro to Tests and Measurements in Health & Physical Education.....	3
	(In place of EDUC 356 Classroom Assessment)	
PETH 437	Adaptive Physical Education	2
	(In place of EDUC 340, Differentiating Instruction for Diverse Students)	
PETH 441	Secondary Methods of Teaching PE.....	2
	(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 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	Care/Prev 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)

Required Core Courses		Hours
BIOL 101-102	Anatomy and Physiology	8
MATH 215	Statistics	3
HLED 173	Health for Life	2
HLED 373	Prev & Care of Athl Injuries	2
PETH 240	Coaching for Success	2
PETH 314	Biomechanics	3
PETH 315	Physiology of Exercise (W)	4
PETH 364	Prin & Adm of PE & Rec (W)	3
PETH 375	Motor Learning & Dev	3
PETH 474	Psyc & Sociology of Sport	2
	Professional Activities	12
	Concentration	23-27

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 (68 Hours)

	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
	Select six (6) hours from the following:	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	Entrepren & Sm Bus Mgmt	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

Required Core Courses, continued		Hours
PETH 113	ProAct—Racquetball	1
PETH 114	ProAct—Softball	1
PETH 115	ProAct—Flagball	1
PETH 116	ProAct—Volleyball	1
PETH 117	ProAct—Basketball	1
PETH 119	ProAct—Soccer	1
PETH 214	ProAct—Tennis	1
PETH 215	ProAct—Golf	1
PETH 216	ProAct—Fitness for Life	1
PETH 217	ProAct—Badminton	1
PETH 218	ProAct—Track and Field	1
PETH 219	ProAct—Gymnastics	1

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 354	Advertising Copywriting	2
PREL 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:

		6
OUTL 148	Basic Horsemanship	
OUTL 156	Land Navigation	
PEAC 141	Fly-Fishing	
PEAC 142	Canoeing	
PEAC 145	Rock Climbing I	
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)

Required Courses	Hours
HLED 373	Prevention & Care of Injuries 2
PETH 114-119 & 214-219	12 Pro Skills Courses 12
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)

Required Courses	Hours
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

Required Courses, continued	Hours
<i>Select five (5) hours from the following:</i> 5	
HLED 129	Intro to Wellness
HLED 373	Prev & Care of Athletic Injuries
HLED 476	Wellness Meth, Mat & Mgmt
PETH 325	Personal Trainer
PETH 495	Directed Study
RELP 468	Health Evangelism

Minor—Physical Education (21 Hours)

Required Courses	Hours
PETH 364	Prin/Admin Phys Ed (W) 3
RECR 268/269	Officiating Sports Analysis 2,2
	Electives (3 must be UD) 6

Required Courses, continued	Hours
<i>Select eight (8) hours from the following:</i> 8	
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

DEPARTMENT OF PHYSICS

Chair: Chris Hansen

Faculty: Ken Caviness, Henry Kuhlman

Professor of International Research in Physics: Ray Hefferlin

Adjunct Faculty: James Engel

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, family-practice 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, and researcher in educational statistics.

The Physics Department offers B.S. and B.A. degrees in Physics, B.S. in Biophysics, and A.S. in Engineering Studies (see page 124).

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
PHYS 155	Descriptive Astronomy: Creation & Cosmology	3
PHYS 211-212	General Physics	6
PHYS 213-214	General Physics Lab	2
PHYS 215,216	General Physics Calc Appl	2
PHYS 310	Modern Physics	3
PHYS 412	Quantum Mechanics	3
PHYS 480	Sci Wrtg & Presentation (W)	1
	Physics Electives (7 UD)	10

Strongly Recommended Electives		Hours
CPT 105	Intro to Word Processing	1
CPT 106	Intro to Spreadsheets	1
CPT 107	Intro to Database	1
PHYS 400	Physics Portfolio	1

Major—B.S. Physics (40 Hours)

Required Courses		Hours
PHYS 211-212	General Physics	6
PHYS 213-214	General Physics Lab	2
PHYS 215,216	General Physics CalcAppl	2
PHYS 310	Modern Physics	3
PHYS 412	Quantum Mechanics	3
PHYS 413	Analytic Mechanics	3

Required Courses		Hours
PHYS 414-415	Electrodynamics	6
PHYS 418-419	Advanced Quantum Mech	6
PHYS 295/495	Directed Study	1-3
	OR	
PHYS 297/497	Undergrad Research	1-2
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 (40 Hours)

Required Courses		Hours
BIOL 151-152	General Biology	8
BIOL 311	Genetics	4
BIOL 197 or 397	Intro to Biological Research	1
BIOL 412	Cell & Molecular Biology	4
BIOL 418	Animal Physiology	3
PHYS 211-212	General Physics	6
PHYS 213-214	General Physics Lab	2
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	1
	OR	
PHYS 297/497	Undergrad Rsrch in Physics	1
PHYS 480	Sci Wrtg & Presentation (W)	1
	Physics Elective	1

Required Cognates		Hours
MATH 200	Elementary Linear Algebra	2
MATH 215	Statistics	3
MATH 218	Calculus III	4
MATH 315	Differential Equations	3
CHEM 151-152	General Chemistry	8
CHEM 311-312	Organic Chemistry	8
CHEM 341	Biochemistry I	4
Recommended Electives		Hours
CPT 124	Fund of Programming	4
CHEM 342	Biochemistry II	2
PHYS 411	Thermodynamics	3
PHYS 412	Quantum Mechanics	3

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 119) 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).

Required Courses		Hours	Required Cognates		Hours
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)

Required Courses	Hours
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.

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.

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.

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 who have sophomore standing or beyond must apply during their second semester in residence. 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 adviser.
11. Development and submission of a typewritten ministry experience portfolio, including the following:
 - A statement of call (similar, though not necessarily identical to the one written for RELP 150 Introduction to Ministry).
 - Description of church and ministry activity.
 - Description of any volunteer or employment experience in any setting.
 - A statement of personal goals and values.
 - A growth plan based on self-evaluation, the results of standardized tests, and the interview with the adviser.
12. Approval by the School of Religion Faculty Committee based on the following factors:

- Evaluation of the Ministry Experience Portfolio.
- Consideration of written recommendations and the recommendation of the adviser.
- Consideration of academic performance.
- Consideration of standardized test results.

Consideration of the student's reputation in the university, church, and community.

Procedure

The process of application and admission is as follows:

1. Complete the 16PF during the first semester of the sophomore year. This test will typically be offered in early September.
2. Complete the trainee application form (available from the resource secretary) during the Fall semester.
3. Applications for admission as trainees will be considered by the faculty in December. This will allow time for evaluation and additional consultation with students, if necessary.
4. Trainees will be officially inducted into the program at the time of the annual Trainee Induction weekend.

Candidates:

Students will be considered for approval as ministerial candidates at the beginning of the first semester of their senior year. These applications will be considered during the early part of the first semester and announced about the end of September.

Qualifications

Prior to admission to candidate status, the student should complete the following requirements:

1. Be in the process of completing (within one academic year) the 34-hour major in Theology or the 33-hour major in Pastoral Care.
2. Be in the process of completing (within one academic year) the 20-hour minor in Biblical Languages.
3. Be in the process of completing (within one academic year) the 25 hours required for certification for ministry or the 19 hours required for certification for pastoral care, whichever may apply.
4. Be in the process of completing (within one academic year) the General Education requirements and the required cognates for the B.A. in Theology or Pastoral Care.
5. Maintain an overall grade point average (GPA) of 2.50, and a GPA in Religion of 2.50.
6. Complete the ministerial candidate requirements.
7. Complete a second 16PF test within 12 months prior to application for candidate status.
8. Maintain a record of regular attendance at required activities of the 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 adviser.
 - Consideration of the student's performance in ministry activities.
 - Consideration of academic performance.
 - Consideration of the student's reputation in the university, church, and community.

Theology students may apply to the School for variances from #2, #3, and #4 of the above qualifications, including exemptions from one biblical language (Hebrew or Greek), intermediate languages, HIST 364 and 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.

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 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 119 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 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 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 or 19 hours for the Certification in Ministry/Pastoral Care with no more than two classes with a grade below “C” in any area of certification, and 12 or 17 hours in cognates to qualify for ministerial candidacy—whichever apply. 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. 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*. **Archaeology** graduation candidates must have a cumulative GPA of 2.75 and 2.75 in their major. 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)	
Certification in Ministry			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. Pastoral Care (33 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	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:

Certification in Biblical Languages		Hours	Required Cognates		Hours
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
			SOCI 225	Marriage and the Family	3
			SOCI 249	Death and Dying	2
				<i>Select one (1) course from the following:</i>	3
			BIOL 421	Issues in Sci & Society (W)	
			BIOL 424	Issues in Nat Sci & Religion (W)	
			PHYS 317	Issues in Phys Sci & Religion	

Major—B.A. Religious Education Licensure 7-12 (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

Must include 35 hours in Education and 16 hours of cognate requirements as follows:

Professional Education Requirements		Hours	Required Cognates		Hours
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	Literacy in the Content Area	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 435	New Testament Studies I	3
RELB 436	New Testament Studies II	3
RELP 264	Christian Witnessing	3
RELT 138	Adventist Heritage	3
RELT 175	Christian Spirituality I	2

Required Courses		Hours
RELT 255	Christian Beliefs	3
RELT 373	Christian Ethics	3
RELT 458	World Religions (W)	3
RELT 467	Christian Phil & Wrldev (W)	3
RELT 245	Old Testament Studies I	
	OR	3
RELB 246	Old Testament Studies II	

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

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—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	
	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 244	Sales	2
PREL 291/391	Practicum: Sales	
	OR	3
PREL 492	Public Rel Internship: Sales	
PREL 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	Required Courses, continued	Hours	
RELB 245	Old Testament Studies I	RELB 237	Archaeology and the OT	3
RELB 246	Old Testament Studies II	RELB 247	Archaeology and the NT	3
	OR	RELB 455	Archaeological Fieldwork	3
	3,3	RELB 497	Archaeological Meth & Theory	3
RELB 435	New Testament Studies I			
RELB 436	New Testament Studies II			

Minor—Biblical Languages (20 Hours)

Required Courses	Hours	Required Courses, continued	Hours	
RELL 181, 182	Biblical Hebrew I, II	RELL 221	Intro to Biblical Exegesis	2
RELL 191, 192	New Testament Greek I, II	RELL 330	Intermediate Hebrew	3
	3,3	RELL 331	Intermediate Greek	3

Minor—Christian Service (18 Hours)

Required Courses	Hours	Required Courses, continued	Hours	
RELB 125	Life and Teachings of Jesus	RELP 264	Christian Witnessing	3
RELT 138	Adventist Heritage	RELP	Electives (6 hrs must be UD)	9
	OR		(May incl HMNT 215/415	
	3		Cross-Cultural Experience)	
RELT 255	Christian Beliefs			

Minor—Missions (23 Hours)

Required Courses	Hours	Required Courses, continued	Hours	
RELB 125	Life and Teachings of Jesus	COMM 291*	Intercultural Comm Prac	3
RELP 240	World Missions	OR		3
RELP 361	Personal Evangelism I	HMNT 215/415*	Cross-Cultural Geography	
RELP 466	Public Evangelism (must be outside USA)	SOCI 150	Cultural Anthropology	3
	3	OR		3
RELT 255	Christian Beliefs	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	RELP 450, 452	Church Ministry I, II	3,3
RELP 321	Intro to Biblical Preaching	RELP 466	Public Evangelism	3
RELP 322	Interm Biblical Preaching			
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).

Minor—Religion (18 Hours), continued

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 (20-21 Hours)

Required Courses		Hours	Required Courses, continued		Hours
RELP 251	Intro to Youth Ministry	3	RELB 435	New Testament Studies I	
RELP 252*	Interm Youth Ministry	3		OR	3
RELT 255	Christian Beliefs	3	RELB 436	New Testament Studies II	
RELB 245*	Old Testament Studies I				
	OR	3	OUTL 138	Outdoor Basics	
RELB 246*	Old Testament Studies II			OR	3 or 2
			EDOE 301	Outdoor Ministries	
			PSYC 422	Adolescent Psychology*	3

*Academic requirements apply

DEPARTMENT OF SOCIAL WORK AND FAMILY STUDIES

Chair: Renè Drumm

Faculty: Christopher Atkins (Stipend Program Coordinator), Terrie Long (Director of Field), Octavio Ramirez (Director, Social Work Program), Stanley Stevenson (Director, Child Welfare Program)

Adjunct Faculty: Shelley Kennedy, Edward Lamb

Social Welfare Consortium: Evie Nogales Baker, Gary L. Jones

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, video—interactive, 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 people 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 Bachelor of Social Work program is to provide a quality generalist baccalaureate education based upon a Christian service value system. The graduates of this program are expected to be able to function in entry level positions working with individuals, families, small groups, organizations, communities and with diverse peoples. The social work practice skills and theoretical orientations used by these professional social workers are informed and guided by evidence-based research findings. These professional social workers will demonstrate this professionalized value system by exemplifying a dedication to the promotion of social and economic justice through an understanding of and a commitment to social change for the benefit of the poor, the disenfranchised, and other populations-at-risk.

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.

Professional Advisory Board Agencies

- Moccasin Bend Mental Health Institute
- UT College of Medicine, Family Practice Unit
- Chattanooga State Technical Community College
- Chattanooga Headstart/Early Headstart
- Family & Children's Services
- Hamilton County Juvenile Court
- TC Thompson Children's Hospital
- Martin-Boyd Christian Home (Assisted Living)

- Chattanooga CARES AIDS Resource Center
- Alexian Brothers Community Services PACE Program
- Clinical Social Work Private Practice Community

Student Advisory Committee

This committee is made up of two elected students from each class, freshman through senior, and two students elected at large. This committee provides a formalized student voice concerning any aspect of the social work program (see *Student Handbook*).

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 with the Council on Social Work Education.

Admission Procedures

Admission to Southern Adventist University does not automatically enroll the student in the social work program. Declaration as a social work major is not equivalent of acceptance to the program. The final decision on acceptance and continuation in the program is made by the program Admissions and Progressions Committee.

During the second semester of the freshmen year the student is to complete an autobiography and a written essay on a specific social issue.

During the first semester of the sophomore year the student is to file a formal application to the social work program (refer to the *Student Handbook* for specifics). Application forms may be obtained from the office manager in the program office. Minimum requirements for admission to the program and upper division courses are listed below:

1. Acceptance to Southern Adventist University.
2. Completion of application form, autobiographical statement, and a writing sample on specific social policy.
3. Submission of a current unofficial transcript.

4. Have an overall grade point average of 2.50 or higher (exceptions may be made for persons who do not meet the grade point average requirements if they are strong candidates on the basis of other criteria). Have completed SOCW 211: Introduction to Social Work, SOCW 212: Social Welfare as an Institution, and SOCW 213: Interviewing Skills with a grade of C or higher.
5. Show evidence of physical, mental, and moral fitness. Further references may be required regarding character, attitude, and coping ability in case of a question in this area.
6. Students whose native language is not English must achieve at least 550 on the Test of English as a Foreign Language (TOEFL).
7. Have taken the Taylor-Johnson Temperament Analysis Test. The student is to make arrangements with the University Counseling and Testing Center to take this test.
8. Completion of a successful interview with the Admissions 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.

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 2.5 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 311, Human Behavior and the Social Environment I
- SOCW 312, Human Behavior and the Social Environment II
- SOCW 314, Social Work Practice I
- SOCW 315, Social Work Practice II
- SOCW 318, Social Work Practice Skills Lab
- SOCW 391, Junior Field Practicum

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 by April 1 of their

sophomore year. IN ORDER TO STAY ON SCHEDULE WITH THE SEQUENCE OF SOCIAL WORK PROGRAM COURSES, AN INTRODUCTORY SOCIAL WELFARE/SOCIAL WORK COURSE, INCLUDING 40 HOURS OF DOCUMENTED VOLUNTEER EXPERIENCE, MUST BE TAKEN BEFORE ENTERING THE SOCIAL WORK PROGRAM.

Those applying to the social work major after their sophomore year will be considered on a case by case basis. If the introductory course has not been completed, it is taken the first semester after declaring social work as a major. This will 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 the testing 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.

Assessment

The social work program maintains a comprehensive assessment policy. In order to provide for evaluation of the program and monitoring teaching effectiveness, as well as measuring the achievements of graduates, all seniors are required to:

1. Take Social Work Knowledge and Competency Skills Exam in the winter semester of the senior year.
2. Successfully complete both the oral and written sections of the Senior Exit Exam which includes presentation of a piece of original research designed in the social work research class and completed during the field practicum. This research project is part of the Field Practicum. Also included is the presentation of the completed Policy/Case Study Project which is done during the Field Practicum.

Program effectiveness will be assessed by combining the results of the above cumulative evaluations. An ongoing analysis of courses and course content required for majors is made by the social work faculty to assure that the curriculum meets the objectives of the program and the standards of the national accrediting body, the Council on Social Work Education.

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.

Assessment

To help the graduates in Family Studies evaluate their academic progress and to aid the department in evaluating teaching effectiveness, each senior is required to:

1. Take a written knowledge and competency skills exam during the fall semester of the senior year that will be based on selected course work.
2. Present a research paper or family life case material to the departmental faculty.

Information gained from the above assessments is used to evaluate departmental programs, but it will not affect graduation eligibility.

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
SOCW 211 Intro to Social Work	3
SOCW 212 Social Welfare as Inst	3
SOCW 213 Interviewing Skills	3
SOCW 311 Human Behav & Social Envir I	3
SOCW 312 Human Behav & Soc Envir II	3
SOCW 314 Social Work Practice I (W)	3
SOCW 315 Social Work Practice II (W)	3
SOCW 318 Social Work Prac Skills Lab	1
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

Required Cognates	Hours
BIOL 103 Principles of Biology	3
ECON 213 Survey of Economics	
OR	3
PLSC 254 American Natl & State Govt	
MATH 215 Statistics	3
PSYC 122 General Psychology	3
SOCI 125 Intro to Sociology	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

Minor—Sociology (18 Hours)

Required Courses	Hours
SOCI 125 Intro to Sociology	3
SOCI 150 Cultural Anthropology	3
Sociology Electives (6 UD)	12

*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 Adolescent Psychology	3
PSYC 479 Family Counseling	3
SOCI 349 Aging and Society	3
SOCI 360 Family Life Education	3

DEPARTMENT OF TECHNOLOGY

Chair: Dale Walters

Faculty: Ray Carson

Adjunct Faculty: Ron Smith

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 (80 Hours)**Business Administration (43 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

Auto Service (40 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	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	Required Cognates		Hours
TECH 148	Methods & Materials of Const	3	ACCT 103	College Accounting	3
TECH 149	Intro to Mech Drwg & CADD	3	ART 104	Drawing I	3
TECH 150	Blueprint Reading	3	ART 109	Design Principles I	3
TECH 151	Intro to Arch Drafting & CADD	3	BUAD 126	Intro to Business	3
TECH 248	CADD Mechanical	3	MATH 120	Precalculus Algebra	3
TECH 328	Adv Architectural Drafting	3	MATH 121	Precalculus Trigonometry	2
TECH 348	3D CAD Drafting	3	MGNT 371	Prin of Entrepreneurship	3
TECH 492	Internship	3	MGNT 372	Small Business Management	3
			TECH 278	History of Architecture	3
Required Courses			General Education		Hours
			COMM 135	Intro to Public Speaking	3
			BUAD 104	Business Software	
				OR	3
			CPTe 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
- Driveability 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	Required Cognates		Hours
TECH 114	Oxy-Acetylene Welding	1	ACCT 103	College Accounting	3
TECH 115	Arc Welding	2	BUAD 126	Intro to Business	3
TECH 166	Auto Electrical Systems	2	MGNT 371	Prin of Entrepreneurship	3
TECH 167	Suspension, Steering, Align	3	MGNT 372	Small Business Management	3
TECH 168	Man Drive Train, & Axles	3	General Education		
TECH 169	Automotive Brakes	3	Hours		
TECH 175/375	Eng Rebuilding & Machining	4	AREA A	ENGL 101; MATH 106 or Higher; BUAD 104 or CPT 100,105,106	9
TECH 178	Heating and Air Conditioning	2	AREA B	Religion	3
TECH 230	Automatic Transmission	3	AREA F	Behavioral, Family, Health Sciences	2
TECH 264	Automotive Repair	3	AREA G	PEAC 225	1
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			

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	Required Cognates		Hours
TECH 105	Field Engineering	3	ACCT 103	College Accounting	3
TECH 117	Industrial Safety	2	MGNT 334	Principles of Management	3
TECH 124	Plumbing	2	MGNT 371	Prin of Entrepreneurship	3
TECH 130	House Wiring	2	MGNT 372	Small Business Management	3
TECH 148	Methods & Materials of Const	3			
TECH 150	Blueprint Reading	3			
TECH 151	Intro to Arch Drafting & CADD	3			
TECH 155	Masonry and Foundations	3			
TECH 160	Carpentry	3			
TECH 165	HVAC	2			
TECH 252	Building Codes	2			
TECH 255	Construction Estimating	3			
TECH 262	Construction Contract Admin	2			

Major—A.T. Construction Management (33 Hours), continued

General Education		Hours
COMM 135	Intro to Public Speaking	3
BUAD 104	Business Software OR	3
CPTE 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 (Six [6] hrs must be UD)	4

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	1	TECH 178	Heating & Air Conditioning	2
TECH 115	Arc Welding	2	TECH 264	Automotive Repair	3
TECH 166	Auto Electrical Systems	2	TECH 276	Engine Perform & Cptrs	3
TECH 167	Suspension, Steering, Align	3	TECH 277	Eng Fuel & Emission Control	4
TECH 168	Man Drive Train, & Axles	3		Auto Service Elective	2
TECH 175	Eng Rebuilding & Machining	4		RELT or RELB	3

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, Dean Scott, Clint Ratliff, Kenneth Willes

Adjunct Faculty: John Cline, Terry Dietrich, John Simmons, Andrew Strong

Visiting Professors: Hendel Butoy, Rick Swartzwelder

Production Manager: Mark Thomas

Advisory Councils:

Animation: Hendel Butoy, Kevin Lee

Film: Bill Hulsey

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

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	<i>Select six (6) hours from the following courses: 6</i>	
ART 104	Drawing I	3	ARTH 318	Art Appreciation (W)
ART 105	Drawing II	3	ARTH 342	Renaissance Art History (W)
ART 109	Design Principles I	3	ARTH 344	Ancient Art History (W)
ART 499	Senior Project	1	ARTH 345	Contemporary Art (W)
	Art Electives (incl 7 hrs UD)	15	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
<i>Select six (6) hours from the following:</i>		6	Recommended Electives		
ARTH 318	Art Appreciation (W)		HLED 356	Drugs and Society	2
ARTH 342	Renaissance Art History (W)		PSYC 422	Adolescent Psychology	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
Recommended General Education					
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 Literature
ART 325	Sculpture	3	AREA E	As specified by the Catalog
ARTE 335	Elementary Methods in Art	2	AREA F	HLED 173; EDUC 220 or PSYC 128 5
ARTE 368	Secondary Methods in Art	3	AREA G	PEAC 225 & PE Elective 2
ART 499	Senior Project	1		
	Studio Art Electives in one discipline	6		
<i>Select twelve (12) hours from the following:</i>		12	<i>*Or two (2) years of high school foreign language receiving a C grade or higher.</i>	
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	Literacy in the 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 Tchng 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	Required Cognate		Hours
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
	Animation Core	57
AART 218	Character Animation II	3
AART 242	Character Design	3
ART 107	Drawing in Motion	3

Required Cognates		Hours
ART 325	Sculpture	3
ARTF 234	Intro to Field Production OR	3
ARTF 215	Lighting	
ARTF 320	Post Production	3
ARTI 230	Sound Design	3

**Effects Animation Concentration (66
Hours)**

Required Courses		Hours
	Animation Core	57
AART 244	Solid Modeling OR	3
AART 256	Compositing	
AART 356	Effects Animation	3

Required Cognates		Hours
ART 325	Sculpture OR	3
ARTI 230	Sound Design	
ARTF 215	Lighting OR	3
ARTF 234	Intro to Field Production	
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	
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	
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	
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	Required Cognates	Hours	
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			
ARTF 234	Intro to Field Production	3	Recommended General Education		
ARTF 235	Cinematography	3	AREA A	CPTÉ 100; ENGL 101,102; 9-10 (MATH 100 and above)	
ARTF 320	Post Production	3	AREA B	RELB 125; RELT 225; RELT 368(W); Elective	12
ARTF 328	Screenwriting II	3	AREA C	HIST 174, 359; PLSC 472(W)	9
ARTF 353	Documentary Filmmaking	3	AREA D	Completed in the Major	
ARTF 370	Senior Project I	2	AREA E	BIOL 421 or PHYS 317; ERSC 105	6
ARTF 422	Directing	3	AREA F	SOCI 150; HLED 173	5
ARTF 445	Self Promotion	1	AREA G	G3, in major; PEAC 225; PEAC Elective (2 hrs)	2
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
	Graphic Design Core	59
ART 227	Digital Illustration OR	
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
	Graphic Design Core	59
ARTI 115	Intro to Interactive Media	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 (PEAC 225 and a PEAC course is required)	6

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
<i>Select nine (9) hours from the following:</i>		9
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

Required Cognates		Hours	Recommended Electives		
ART 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
CPTR 124	Fund of Programming	4	MATH 121	Precalculus Trigonometry	2
			SOCI 150	Cultural Anthropology	3

Major—A.S. Graphic Design (32 Hours)

Required Courses		Hours	Required Cognate		Hours
ART 104	Drawing I	3	TECH 245	Graphic Production	3
ART 109-110	Design Principles I, II	3,3	Recommended General Education		
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)

Required Courses		Hours	Required Courses, continued		Hours
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*

Required Courses		Hours	Required Courses, continued		Hours
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—Graphic Design (21 Hours)

Required Courses		Hours
ART 104	Drawing I	3
ART 109	Design Principles I	3
ARTH 345	Contemporary Art (W)	3
ARTG 115	Intro to Computer Graphics	3
ARTG 210	Vector Graphics	3
ARTG 212	Raster Graphics	3
ARTG 338	Design Studio III	3

INTERDEPARTMENTAL PROGRAMS

Bachelor of Science in Medical Science

Adviser: Keith Snyder

A Bachelor of Science Degree in Medical Science will be conferred upon students not already in possession of a bachelor's degree who satisfy the following three conditions:

1. Complete 93 semester hours in an accredited undergraduate university program of which at least the last 30 were taken in residence at Southern Adventist University and at least 12 of which were at the upper division level.
2. Meet the General Education and Cognate requirements equivalent to those outlined for the current 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 81)
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.

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 st	2 nd			1 st	2 nd
CPT 100	Computer Concepts		1	COMM 135	Intro to Public Spkg		3
ENGL 101-102	College Composition	3	3	CPT 105-106	Word Proc/Sprdsheets		2
PEAC 225	Fitness for Life	1			Area A, Math	0-3	
	Area B, Religion	3			Area B, Religion	3	
	Area C, History	3	3		Area C, Govt/Econ		3
	Area E, Nat Science	3			Area D, Literature	3	
	Area F, Beh Science		3		Area E, Natural Sci	3	
	Area G-1		3		Area F, Beh Science		2
	Electives	3	3		Area G, PEAC Skill	1	
		16	16		Foreign Language	3	3
					Electives	—	3
						16	16

See pages 27-28 and 31-35 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 st	2 nd			1 st	2 nd
CPT 100	Computer Concepts		1	COMM 135	Intro to Public Spkg		3
ENGL 101-102	College Composition	3	3	CPT 105-106	Word Proc/Sprdsheets		2
PEAC 225	Fitness for Life	1			Area A, Math	0-3	
	Area B, Religion	3			Area B, Religion	3	
	Area C, History	3	3		Area C, Govt/Econ		3
	Area E, Nat Science	3			Area D, Literature	3	
	Area F, Beh Science		3		Area E, Natural Sci	3	
	Area G-1		3		Area F, Beh Science		2
	Electives	3	3		Area G, PEAC Skill		1
		16	16		Electives	7	2
						16	16

See pages 27-28 and 31-35 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 advisers are prepared to assist the student in working out a satisfactory sequence of courses needed to meet the admission requirements of the chosen professional school.

Anesthesia (CRNA)

Adviser: Barbara James

Registered nurses who are experienced and comfortable working in critical care areas may become registered nurse anesthetists. Graduation from an approved baccalaureate program of nursing and a valid nursing license is required. Additional requirements may be determined by consulting the School of Nursing.

Dentistry

Adviser: Keith Snyder

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 60611 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 151-152.....	8 hours
CHEM 151-152, 311-312, 341	20 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

Adviser: Ben McArthur

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 Economics3 hours
- 2. PLSC 254, American Government3 hours
- 3. PLSC 471, Classics of Western Thought I OR
 PLSC 472, Classics of Western Thought II.....3 hours
- 4. ENGL 313, Expository Writing3 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 adviser.

Medicine

Advisers: Earl Aagaard, 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 151-152.....	8 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 341), 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: The first three of these are recommended 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

Adviser: Ken Caviness

The admission requirements to colleges of optometry vary, so the student should follow the catalog from the school of his/her choice. (See the Association of Schools and Colleges of Optometry's website for a list of accredited optometry programs—<http://opted.org>). However, all place emphasis on biology, chemistry, mathematics and physics. Additional courses in the areas of fine arts, language, literature, and the social sciences are usually necessary.

A minimum of two years of preoptometric study is required. However, additional study increases the prospects of acceptance into professional training.

Following is a list of preoptometry courses required by most schools:

BIOL 151-152, 330, 416, 418	19 hours
CHEM 151-152, 311	12 hours
ENGL 101-102	6 hours
MATH 120, 121, 181	9 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

Adviser: Earl Aagaard, 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

Adviser: 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, 151-152, 330	16 hours
CHEM 151-152, 311-312, 341	20 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 151-152; 101-102 or 416 and 418, 225 or 330, 340	23 hours
CHEM 151-152, 311-312, 341-342, 343*	23 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

Adviser: Keith Snyder

An alternative to allopathic (M.D.) and osteopathic (D.O.) medical schools are the podiatric medical schools whose graduates receive the D.P.M. degree. Doctors of podiatric medicine are physicians trained in the medical and surgical treatment of the human foot and ankle.

To gain acceptance to a school of Podiatric Medicine, a bachelor's degree is highly desirable. Preprofessional course work, with a minimum of 90 semester hours, is required of all students. Applicants are required to take the Medical College Admission Test (MCAT). In addition, most D.P.M. schools require the same prerequisite science classes as the M.D. and D.O. schools.

There are seven colleges of podiatric medicine, six of which participate in the American Association of Colleges of Podiatric Medicine Application Service (AACPMAS). The six schools in the AACPMAS are located in California, Florida, Illinois, Iowa, Ohio, and Pennsylvania. An application packet can be obtained thru the website <http://www.eaacpmas.org>.

Pre-Physician Assistant

Adviser: 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 adviser. A complete list of PA programs can be found on the American Academy of Physician Assistants website at <http://aapa.org>. Southern Adventist University can structure a course of study to meet the requirements of any clinical program to which a student wishes to apply. Students are advised to begin

early in their academic studies to gather information on prospective PA schools and the pre-requisite course work required.

Veterinary Medicine

Adviser: Earl Aagaard

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 151-152, 316, 412	16 hours
CHEM 151-152, 311-312, 341	20 hours
ENGL 101-102	6 hours
PHYS 211-212, 213-214	8 hours

Additional requirements include:

Humanities and Social Sciences..... 18 hours

Admission requirements will vary among veterinary schools; therefore, it is recommended that the pre-veterinary student work closely with his/her adviser in assuring that the specific requirements for the schools of his/her choice are met.

Information on veterinary schools and applications, through the Association of American Veterinary Medical Colleges, are available online <http://www.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: ART 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 adviser in the program. Students will maintain a log sheet and samples of work. May be repeated.

AART 295. Directed Study 1-3 hours

This course involves individual or group work adjusted to meet particular needs in Animation. Content is chosen by the faculty adviser and the student. 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 adviser 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. (Winter)

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. (Fall)

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

Prerequisite: Junior or Senior Status.

A practicum consists of supervised volunteer/work experience in related fields of accounting on a part-time basis. The work may be done at various job sites. A minimum of 50 clock hours of work experience is required for each semester hour of credit. (Note: A maximum of 3 credit hours of practicum and/or internship may apply as an elective in the major.)

ACCT 492. Accounting Internship 1-3 hours

Prerequisite: Junior or Senior Status.

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 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 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 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 adviser 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 adviser 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 121. Typography I 3 hours

Prerequisites: ART 109; ARTG 115.

An introductory course on type history, letter anatomy, classic and modern typefaces, styles and attributes such as leading, kerning, alignment, etc. The students will design their own typeface based on an existing one or create an original. Lab fee 12 will be assessed for this course.

ARTG 122. Typography II 3 hours

Prerequisite: ARTG 121.

A course dealing with the introduction of other visual elements such as photographs, illustrations, graphs, and graphics into the typographical design. Emphasis is placed on the synergistic relationship between visuals and type that focuses on complementary form and style within the context of a specific message to be communicated. Lab fee 12 will be assessed for this course.

ARTG 138. Design Studio I 3 hours

Pre or Co-requisites: ART 109; ARTG 115.

A course which surveys the important historical events and technological innovations that have contributed to current trends and practices in the field of graphic design. Lecture presentations, research, discussion, and visual exercises combine to develop the student's awareness of historical and current technologies, and the artists and designers who have used them to shape the world through visual communication. Studio components of the course give students the opportunity to practice the production techniques needed to create visual interpretations of the lecture content.

ARTG 210. Vector Graphics (G-2) 3 hours

Prerequisites: ART 109, ARTG 115, or permission of the instructor.

A course designed to develop skills needed for producing vector-based digital art. Students with a basic knowledge of vector graphic concepts will gain a comprehensive understanding of the uses of drawing programs such as Illustrator and FreeHand. Emphasis is placed on the application of design principles to the digital environment. Lab fee 12 will be assessed for this course.

ARTG 212. Raster Graphics 3 hours

Prerequisites: ARTG 115; ART 110 or permission of the instructor.

In this course the student will address the creation and manipulation of raster-based imagery in a comprehensive manner using the industry standard image-editing program, Adobe Photoshop. Color correction, scanning resolutions, selection tools, image adjustments, collage and montage techniques, masking, and the effective application of filters, blend modes, and effects to images designed for use in digital and printed media will be studied in detail. Lab fee 12 will be assessed for this course.

ARTG 226. Digital Imaging 3 hours

Prerequisite: ARTG 212 or permission of instructor.

In this course the student will explore studio photography techniques with digital SLR cameras. Emphasis will be given to image enhancement, stylization, and compositing based on an advanced knowledge of Photoshop. Lab fee 12 will be assessed for this course.

ARTG 238. Design Studio II 3 hours

Prerequisite: ARTG 138.

A foundation course that explores both the creative process and the production concerns of making images for visual communication. By focusing on methodologies for ideation and conceptualization, the development of craft in concept rendering, and the production of finished compositions incorporating traditional and digital media, students will practice both the conceptual thinking and mechanical skills needed to achieve consistently effective design solutions. Lab fee 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 adviser 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 adviser 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 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 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 adviser 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.

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.

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.

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.

ASL 265/465. 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.

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 151-152. General Biology (E-1) **4,4 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. Three lectures, one recitation, and one three-hour laboratory period each week. Lab fee 4 will be charged for each semester.

BIOL 197. Introduction to Biological Research 1 hour

Prerequisite: BIOL 151.

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 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 295. Directed Study 1-3 hours

Prerequisites: BIOL 151-152.

Designed for the individual student or group of students who wish to do independent study in an area of biology not listed in the regular offerings. Content and method of study must be arranged for prior to registration. This course may be repeated for credit. BIOL 495 open to Biology majors or minors only. (Fall, Winter, Summer—upon request)

BIOL 297. Research in Biology 1-2 hours

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 151 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 151-152.

Natural history of the vertebrate classes including ecology, physiology, behavior, classification and identification, with emphasis on local species. Two lectures and one three-hour laboratory each week. Lab fee 11 will be assessed for this course.

BIOL 313. Developmental Biology 3 hours

Prerequisites: BIOL 151-152.

An introduction to embryonic development from the formation of germ cells through the maturation of major organs culminating in parturition. Special reference is made to humans. Emphasis is placed on problems of growth, differentiation, and morphogenesis. Laboratory includes microscopic study and experiments with sea urchin, frog, and chick embryos. Two lectures and one three-hour laboratory period each week.

BIOL 314. Ornithology (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 151-152.

A general survey of the more important parasites of man and domestic animals. Two lectures and one three-hour laboratory period each week.

BIOL 317. Ecology 3 hours

Prerequisites: BIOL 151-152.

Ecology is a study of the interrelationships of plants, animals and their environment. This course examines these interactions in the context of energy flow, nutrient cycles, limiting factors, succession and population dynamics. Field work introduces various ecological sampling techniques and the student participates in an ecological analysis of various local communities as well as extended field trips. Two lectures and one field trip or three-hour laboratory period each week. Lab fee 6 will be assessed for this course.

BIOL 320. Entomology 3 hours

Prerequisites: BIOL 151-152.

A systematic study of the insects of the world considering anatomy, physiology, behavior and relation to humans. In the laboratory, emphasis is placed on identifying local insects and a representative collection is turned in. Short field trips are planned as part of the laboratory work. Two lectures and one three-hour laboratory period each week.

BIOL 321. Field Ecology 3 hours

This course covers general ecology principles and ecology of a selected field area, 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 fees 7 and 13 will be assessed for this course. (Summer, odd years).

BIOL 330. General Microbiology 4 hours

Prerequisites: BIOL 151-152.

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 151-152.

A study of the basic aspects of the human immune system including topics such as antigen and antibody structure and reactions, humoral and cell mediated immunity, hypersensitivity, immune disease and transplantation immunology. Two lectures and one three-hour laboratory period each week.

BIOL 365. Topics in Biology (W) 1-3 hours

Formal course work designed to meet the needs or interests of students in specialty areas of Biology not covered in regular courses. 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 151-152 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 397. Introduction to Biological Research (W) 1 hour

Prerequisite: BIOL 151.

See BIOL 197 for course description.

BIOL 408. Flowering Plants and Ferns 3 hours

Prerequisites: BIOL 151-152.

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 152.

A field study of the wild flowers, shrubs and trees in the Great Smoky Mountain National Park, which contains the world's finest examples of temperate deciduous forest. Plants are identified by means of botanical keys, and observation lists are kept. Special attention is given to the different forest types and their associated plants. Involves a 10-day to three-week camping study experience. Field trips daily. Lab fee 11 will be assessed for this course. (Summer)

BIOL 411. Mammalogy 3 hours

Prerequisites: BIOL 151-152.

A study of the mammals of the world, with emphasis on North America. Includes classroom and field study of systematics, distribution, behavior and ecology. A small collection is required in the laboratory. An extended weekend field trip will be required as part of laboratory credit. Two lectures and one three-hour laboratory each week. Lab fee 5 will be assessed for this course.

BIOL 412. Cell and Molecular Biology 4 hours

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 151-152 and BIOL 311, the student is exposed to methods of cellular and molecular research while learning about the appearance and operation of cellular organelles. The exciting details of cell integration and control provide the framework for this interdisciplinary study. Three lectures and one three-hour laboratory period each week.

BIOL 416. Human Anatomy 3 hours

Prerequisite: 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 151-152.

A descriptive study of normal tissues, primarily those of man. The microscopic identification and characteristics of stained sections are emphasized in the laboratory. Two lectures and one three-hour laboratory period each week.

BIOL 418. Animal Physiology 3 hours

Prerequisites: BIOL 151-152; 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. (Fall)

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 486. 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 495. Directed Study 1-3 hours

Prerequisites: BIOL 151-152.

See BIOL 295 for course description.

BIOL 497. Research in Biology (W) 1-2 hours

Prerequisite: BIOL 397.

See BIOL 297 for course description.

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 adviser and the student.

BMKT 326. Principles of Marketing 3 hours

Prerequisites: ECON 213, 225 or concurrent enrollment.

A study of the nature and functions of marketing. Includes marketing institutions, basic problems in the marketing of commodities and services, price policies, and competitive practices.

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 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

Prerequisite: Junior or senior status.

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 school approval.

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 291. Practicum 1-3 hours

Prerequisite: Consent of instructor before arranging for practicum.

Supervised work in a broadcast station or media production environment. At least 90 clock hours of work experience are required for each semester hour of credit. Procedures and guidelines are available from the School.

BRDC 295. Directed Study 1-3 hours

For students who want to do independent research and/or media production. Directed study topics will be selected with guidance from the instructor who will serve as a consultant to the student in carrying out the project.

BRDC 314. Broadcast News Writing (W) 3 hours

Prerequisites: BRDC 202; JOUR 205.

Gathering information, interviewing, writing, and editing for the broadcast media. How to start, develop, and polish hard news and feature stories by writing to sound and pictures. Students write, copy, and produce sound documentaries for the University radio station and Adventist World Radio. Lab fee 7 will be assessed for this course.

BRDC 327. Digital Video Production 3 hours

Prerequisite: BRDC 227.

An advanced video production class with a focus on digital video acquisition, non-linear editing, and the production of television graphics. Students will produce a series of single-camera video projects, utilizing non-linear editing and digital effects programs. This course will also include an introduction to video streaming on the Web. Lab fee 10 will be assessed for this course.

BRDC 391. Practicum 1-3 hours

Prerequisite: Consent of instructor before arranging for practicum.

See BRDC 291 for course description.

BRDC 417. Electronic Media Management 3 hours

Prerequisite: BRDC 201.

An analysis of the challenges involved in planning and operating electronic media including personnel, programming, business ethics, community relations, sales, FCC policies and promotion. Students interview media managers during field trips to area radio, TV, and cable operations. Added emphasis on Christian broadcasting and WSMC-FM, the University's 100,000-watt radio station. Case study method is involved.

BRDC 426. TV News Reporting and Performance 3 hours

Prerequisites: BRDC 314, 227/327 or COMM 315.

Students become reporters, videographers, producers, and anchors for a weekly newscast produced in the School's Brock Hall studio. Students learn basics of visual storytelling as they use digital equipment to shoot and edit packages for broadcast. In addition, each student is required to create a resume (tape) essential for getting a first job. Emphasis on visual storytelling and performance skills. Includes lectures and one three-hour lab per week. Lab fee 10 will be assessed for this course. (Fall, odd years)

BRDC 445. Senior Project 1 hour

Prerequisite: Senior standing.

Required of all B.S. seniors taking the Media Production 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." Lab fee 5 will be assessed for this course.

BRDC 465. Topics in Broadcasting 1-3 hours

See BRDC 265 for course description.

BRDC 492. Broadcast/Media Production Internship 3 hours

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 245. Computer-Aided Publishing (A-4) 3 hours**
This course is cross-listed with CPTE 245/345, School of Computing. A student may receive credit for this course from only one school.
An introductory course in the use of the computer as an aid in publishing materials such as newsletters, flyers, programs. The course gives training in the preparation of camera-ready services using specialized desktop publishing software such as Aldus PageMaker and Xerox Ventura to do page layout.
- 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 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 adviser and the student.
- BUAD 296. Business Administration Study Tour 1 hour**
A trip designed to acquaint the student with important large business centers and facilities. Focus will be on financial, merchandising, advertising, and cultural organizations. 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 345. Computer-Aided Publishing (A-4) 3 hours

This course is cross-listed with CPT 245/345, School of Computing. A student may receive credit for this course from only one school.

See BUAD 245 for course description.

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 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

This course is a qualitative look at the chemistry of everyday living for non-science majors. Topics may include household chemicals, drugs (prescription, over-the-counter, or illicit), hazards and risks, food chemistry, polymers, cosmetics, forensic science, and sports equipment. 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.

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 hours

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 115. Introductory Chemistry (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 course for elementary education majors that uses a "hands-on" approach to teach the basic principles of chemistry (including the use of basic scientific instruments) and the interrelationships among the other disciplines of science and technology. 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 better. 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 better. 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 341. Biochemistry I**4 hours**

Prerequisites: Successful completion of CHEM 312 and BIOL 151 with a grade of C- or higher or consent of instructor.

A study of the basic principles of the chemistry of living organisms. Topics presented include the structure, properties, and functions of carbohydrates, lipids, and proteins; an introduction to bioenergetics; enzyme kinetics and mechanisms; carbohydrate, lipid, and energy metabolism. Four hours of lecture each week. (Fall)

CHEM 342. Biochemistry II**2 hours**

Prerequisite: Completion of CHEM 341 with a grade of C- or higher.

A continued study of the basic principles of the chemistry of living organisms. Topics presented include the metabolism of proteins and nucleic acids and the regulation of gene expression. Two hours of lecture each week. (Winter, alternate years)

CHEM 343. Biochemistry Laboratory**1 hour**

Prerequisites: Successful completion of CHEM 315 and previous or concurrent enrollment in CHEM 342.

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. (Winter, alternate years)

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.

Compound types, reactions, and intermediates not considered in Organic Chemistry will be studied. Once a sufficient background has been established, an introduction to medicinal chemistry and synthesis of medicinal compounds will be studied. (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 & Communication.

COMM 406. Persuasion and Propaganda (W) 3 hours

This course is cross-listed with PREL 406. A student may receive credit for this course from only one program.

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 220.

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. (Fall)

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: CPTR 220.

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 380; CPTR 220.

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 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 (G-2) 3 hours

Prerequisite: CPTR 124.

This course focuses on the design and implementation of business computing systems utilizing a modern programming environment such as Visual Basic and/or Delphi. (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. (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.

CPTe 212. Web Programming 3 hours

Prerequisite: CPTe 124.

Pre- or co-requisite: JOUR 242 or CPTe 110 or permission of instructor.

Programming for e-commerce using the World Wide Web. Application architecture, languages, scripting tools, HTML editors, Web design packages and authoring tools. (Fall)

CPTe 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)

CPTe 245. Computer-Aided Publishing (A-4) 3 hours

Prerequisite: CPTe 100.

This course is cross-listed with BUAD 245/345, School of Business and Management. A student may receive credit for this course from only one school.

An introductory course in the use of the computer as an aid in publishing materials such as newsletters, flyers, programs. The course gives training in the preparation of camera-ready documents without conventional paste-up and typesetting services using specialized desktop publishing software.

CPTe 254. UNIX Systems Administration 3 hours

Prerequisite: CPTe 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 345. Computer-Aided Publishing (A-4) 3 hours

Prerequisite: CPTe 100.

This course is cross-listed with BUAD 245/345, School of Business and Management. A student may receive credit for this course from only one school.

See CPTe 245 for course description.

CPTe 433. Network Administration 3 hours

Prerequisites: Admission to the School of Computing; CPTe 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.

CPT 495. Directed Study in Computer Technology 1-3 hours

Prerequisites: Permission of instructor and school dean.
See CPT 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 ≥ 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 (G-2) 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 220. Organization, Architecture and Assembly Language 4 hours

Prerequisites: CPTR 103, 124.

Basic machine organization and architecture. Processor components, instruction sets, memory types and hierarchy. Introduction to data representation, instruction formats, addressing techniques, and assembly language. 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.

CPT 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; CPTR 220, 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 hoursPrerequisites: 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 hoursPrerequisite: 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 database integration. (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. Money and Banking 3 hours

Prerequisite: ECON 224.

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**

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.

EDUC 138. Introduction to and Foundations of Secondary Education 3 hours

This course is designed to give college students an opportunity to be immersed in their first Professional Development School experience and is required of all students seeking secondary education licensure. Practical experience in diverse classroom settings is gained while assigned to a secondary class. Additionally, weekly focused reading and discussion will include teaching as a profession, current issues and trends (e.g. the natural learning cycle) in public and Seventh-day Adventist education, as well as the foundations and history of education. Students will be required to show evidence of passing a Tennessee Bureau of Investigation background check prior to entering the classroom.

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 3 will be assessed for this course. Note: This course meets the technology requirements for NAD recertification.

EDUC 320. Emergent Literacy 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. 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. (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 specific 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 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 and EDUC 458 will provide opportunities for application. (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.

EDUC 356. Classroom Assessment 2 hours

Prerequisite: Admission to Teacher Education or permission of school dean.

This class is designed to prepare preservice teachers in developing, administering, scoring, and reporting different types of assessments for diverse learners. Ten (10) hours of clinical and 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 and EDUC 458 will provide opportunities for application. (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. (Fall)

EDUC 423. Adolescent Psychology 3 hours

This course is cross-listed with PSYC 422. A student may receive credit for this course form 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 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. Literacy in the Content Areas 2 hours

Prerequisite: Admission to Teacher Education.

This course will help teachers focus on those literacy skills essential 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 include the secondary curriculum content—factors that influence change, the most important current practices, and critical curriculum issues facing educators today. It will provide general knowledge of current teaching methods, strategies of learning, and evaluation procedures. 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 450. Reading Assessment and Instruction 3 hours

Prerequisite: EDUC 335.

An advanced course in comprehensive reading instruction. Candidates will become familiar with classroom reading assessments that inform effective reading instruction. An action research project is embedded in an intensive field experience of at least two hours weekly for the second half of the semester. (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. Observation and micro-teaching required. A minimum of fifteen (15) hours of observations, micro-teaching, and field experience is required.

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. A minimum of fifteen (15) hours of observations, micro-teaching, and field experience is required.

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 458. K-6 Teaching Methods and Strategies 6 hours

Prerequisite: Admission to Teacher Education.

This course focuses on applied K-6 curriculum content for Mathematics, Science, Health, Social Studies and Bible. It will provide a general knowledge of current teaching methods, strategies of learning, lesson planning, evaluation, textbook selection, and critical issues facing education today. An intensive culminating field experience in conjunction with EDUC 335 and EDUC 421 will provide opportunities for application. (Winter)

EDUC 463. Small Schools Seminar 2 hours

Prerequisite: Admission to Teacher Education.

Required of all candidates seeking licensure K-8. Topics will include the specialized needs of the multi-grade teacher in administration, record keeping, curriculum management, and organization in small schools. (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 465. Pre-Session Practicum 1 hour

Prerequisite: Admission to Student Teaching.

This course is designed to give experience in the “start up” dynamics of elementary programs. It involves 40 clock hours of on-site work with a qualified supervising teacher for two (2) weeks prior to the Fall Semester. The student is required to arrange for his/her own placement and to submit a practicum application to the School of Education and Psychology office by May 15 of the year in which the practicum is to be done.

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 (CBT 133-151; 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 (CBT 152; 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 (CBT 152-172; 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 (CBT 173; 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 (CBT 133-151; 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 (CBT 152; 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 (CBT 152-172; 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 (CBT 173; 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 (CBT 133-151; 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 (CBT 152; 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 (CBT 152-172; 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 (CBT 173; 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 (CBT 173-195; IBT 61-70), and for students who have entered the program with TOEFL scores below 500 (CBT 173; 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 (CBT 196; 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 (CBT 196-212; IBT 71-79), and for students who have entered the program with TOEFL scores below 525 (CBT 196; 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 (CBT 213; 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 (CBT 173-195; IBT 61-70), and for students who have entered the program with TOEFL scores below 500 (CBT 173; 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 (CBT 196; 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 (CBT 196-212; IBT 71-79), and for students who have entered the program with TOEFL scores below 525 (CBT 196; 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 (CBT 213; 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, colonial through modern, with emphasis on ideas, attitudes, and trends having individual, national, and universal interest. (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, 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.

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. (Fall)
- 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 Spencer, 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. (Winter, even years)
- 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 20th 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 your 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 literary techniques as demonstrated in this popular 20th Century author's 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.

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 457. Latino Literature (D-2) (W) 3 hours

This course is cross-listed with SPAN 457. A student may receive credit for this course from only one program. See SPAN 457 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 16 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 a student to ENGL 101 whose ACT is 16 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 17 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 17 or higher, or SAT score of 430 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 pre-scribed 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.

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. (Winter)

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. Emphasis on 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. (Winter)

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.

ENGL 414. Advanced Creative Writing 3 hours

Prerequisites: ENGL 314 and approval 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 persona 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. In order to enrich the workshop environment for both groups, class will meet with ENGL 314. 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)

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 adviser 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. (Fall, Winter, Summer)

FNCE 450. Working Capital Management 3 hours

Prerequisite: FNCE 315.

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. Money and Banking 3 hours

Prerequisite: ECON 224

This course is cross-listed with ECON 452 and FNCE 552. 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. (Fall)

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 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. (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. (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. (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. (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

Prerequisite: 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 and ENGL 216 or approval of the department.

Close reading and discussion of selected works from the period (eleventh through sixteenth centuries) viewed in the socio-historical, intellectual, and artistic context: *Chanson de Roland*, *Roman de Renart*, *Aucassin et Nicolette*, *Farce de Maître Pathelin*, and works by Chrétien de Troyes, Villon, Rabelais, the Pléiade, and Montaigne.

FREN 358. Survey of French 17th and 18th Centuries Literature (D-2) (W) 3 hours

Prerequisites: FREN 244 and ENGL 216 or approval of the department.

This course is a study of neo-classical tragedy and comedy as illustrated in select texts of Corneille, Molière, Racine, Marivaux, and Beaumarchais. It experiments in narrative fiction, including works by Mme de Lafayette and Prévost. The art of epistolarity: Pascal and the polemical letter, Mme de Sévigné and the personal letter, Voltaire and the traveler's letter. Focus on topics: *préciosité* and sensibility; feminism and modernity; rationalism and *esprit critique*.

FREN 458. Survey of French 19th and 20th Centuries Literature (D-2) (W) 3 hours

Prerequisites: FREN 244 and ENGL 216 or approval of the department.

Studies the main literary works and currents in the modern era in their historical context. Based on an interdisciplinary approach linking literary theory with history, sociology, and psychology. Works studied: Chateaubriand, *Réné*; Balzac, *Le Père Goriot*; Hugo, *Hernani*; Baudelaire, *Les Fleurs du mal*; Gide, *La Symphonie pastorale*; Camus, *L'Étranger*; Duras, *Moderato Cantabile*.

FREN 459. Francophone Cultures and Literatures (D-2) (W) 3 hours

Prerequisites: FREN 244 and ENGL 216 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

Designed to provide academic support for French majors who will be taking the departmental written examination required for graduation. Faculty will meet with the student regularly to assure the student has covered all materials pertinent to this examination. French majors must take this course prior to graduation in the last semester.

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. (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. (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. (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. (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 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 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.

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 Department of History. A two-thirds tuition waiver applies to this class. Refer to policy on page 57.

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 department chair. A complete tuition waiver for this class applies to Southern Scholars students only. Refer to the scholarship on page 58.

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. (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. (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).

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).

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 CPT 245/345 or BUAD 245/345 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 print 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 print 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. (Winter, 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.

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 print 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 (A-2) 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 326. Mathematical Statistics 3 hours

Prerequisites: MATH 215, 218, 325.

Random variables, conditional probability, standard distributions of random variables, distributions of functions of random variables, interval estimation, point estimation. (Winter, odd 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.

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 adviser and the student.

MGNT 334. Principles of Management 3 hours

A study of basic business management including an analysis of business policies viewed from the standpoint of the functional characteristics of the management process and current ethics.

MGNT 344. Human Resource Management 3 hours

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.

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 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.

MGNT 464. Business Strategies (W) 3 hours

Prerequisites: BMKT 326; ECON 225; FNCE 315; MGNT 334

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 491. Management Practicum 1-3 hours

Prerequisite: Junior or senior status.

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 school approval.

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 410.

This course permits students to apply principles of research and statistical analysis of data leading to the completion of a research project.

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 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.

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 musics, 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 16th 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-18th 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-18th century through the 19th 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 four 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 four 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 four 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 20th 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 20th 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 four 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)

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. An additional fee of \$638 is charged above the flat-rate tuition fee.
- 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 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. A rebate of \$3,700/semester to cover 90% of the tuition (\$3,445) and the full general fee (\$255) applies to these classes. The policy for tuition refunds applies. 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**NRSR 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

NRSR 103. Associate Nurse Perspectives**1 hour**

Prerequisite: Successful completion of the following: an approved LPN program; Nursing Mobility Profile I Examination; examination over basic skills common to all areas of nursing.

A course designed to supplement and prepare the Licensed Practical Nurse for advanced placement and career mobility.

NRSR 106. Fundamentals I**4 hours**

Prerequisites: Admission to the School of Nursing; Chemistry and Math (see AS admission requirement); BIOL 101; 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.

NRSR 107. Fundamentals II**4 hours**

Prerequisite: NRSR 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 9 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 9 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 9 will be assessed for this course.

NRSG 226. Adult Health II 4 hours

Prerequisites: NRSG 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 9 will be assessed for this course.

NRSG 231. Child Health 4 hours

Prerequisites: NRSG 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.

NRSG 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.

NRSG 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.

NRSG 305. Adult Health III 4 hours

Prerequisites: NRSG 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.

NRSG 309. Nursing Seminar 4 hours

Prerequisites: NRSG 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 10 will be assessed for this course.

NRSG 314. Herbal Therapy 1 hour

Pre- or Co-requisites: NRSG 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. Co-requisites NRSG 322, 328, 316.

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.

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 5 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 138. Outdoor Basics 3 hours**

This course is a practical survey of outdoor adventure experiences available for recreational, educational, and professional use. Instruction in canoeing, top rope rock climbing, caving, low-impact camping, orienteering, team building dynamics and processing, and ropes courses is included. Leadership skills are emphasized as students learn to apply teaching techniques, safety, group dynamics, and basic wilderness ethics to field experiences. An extended off-campus trip is required. Lab fee 8 will be assessed for this course.

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. Rock Climbing I 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.

See PEAC 145 for course description.

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 147. Rock Climbing II 1 hour

This course is cross-listed with PEAC 147, School of Physical Education, Health and Wellness. A student may receive credit for this course from only one program.

Prerequisite: OUTL 145 or permission of the instructor.

Enhancement of the climbing skills and teaching abilities of students with a basic climbing background. Mastering of advanced top rope skills, anchor systems, and advanced rescues, as well as traditional (trad) and sport climbing theory and technique, including big wall and multi-pitch experience. Additional emphasis will be on teaching techniques for rock climbing. Lab fee 6 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 154. Wilderness First Aid 2 hours

This class is an excellent starting point for backcountry travelers with little or no medical background. The course covers the essentials of Wilderness Advanced First Aid including long term care considerations and the American Red Cross Wilderness Protocols. At least half of the training is hands-on and outside, with many opportunities to practice assessment and treatment techniques. The Wilderness Advanced First Aid course satisfies Forest Service requirements for backcountry guides in most jurisdictions and is recognized by the Coast Guard for the captain's license first-aid prerequisite. It is recommended for anyone who spends time hiking and paddling out of the reach of immediate medical care. Leads to Red Cross certification. Lab fee 4 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 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 138 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 319. First Responder 3 hours

To provide participants with the skills and knowledge to recognize and care for life threatening emergencies. First responders provide advanced first aid care until emergency personnel arrive. This course is specifically designed for participants who wish to pursue a career in emergency response fields. Topics of discussion include, but are not limited to, understanding the EMS system and operations, patient assessment, airway management, professional rescue CPR, medical illnesses, care for traumatic injuries, and pediatric emergencies. Course leads to American Red Cross certification. Lab fee 8 will be assessed for this course.

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 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. Leads to swift water rescue certification. Requires off-campus labs. Participants must be competent swimmers and must have their own swift water PFD. 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.

OUTL 430. Adventure Leadership 3 hours

Prerequisites: Minimum 12 OUTL credit; OUTL 154 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 138 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 495 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 of 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. (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 3 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 EDOE 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 outing will be part of this course. Offered on a rotating basis. Minimal fees may be charged for transportation. Lab fee 7 will be assessed for this course.
- PEAC 142. Canoeing (G-3) 1 hour**
This course is cross-listed with EDOE 142, School of Education and Psychology. A student may receive credit for this course from only one program.
See EDOE 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. Rock Climbing I (G-3) 1 hour**
This course is cross-listed with EDOE 144, School of Education and Psychology. A student may receive credit for this course from only one program.
A safe, enjoyable, introductory course that will include but not be limited to: learn safety and belaying techniques, climbing skills, essential climbing knots, self rescue, and issues associated with top rope climbing. Offered on a rotating basis. Lab fee 6 will be assessed for this course.
- PEAC 146. White Water Rafting Guide (G-3) 1 hour**
This course is cross-listed with EDOE 146, School of Education and Psychology. A student may receive credit for this course from only one program.
See EDOE 146 for course description.
- PEAC 147. Rock Climbing II (G-3) 1 hour**
This course is cross-listed with EDOE 145, School of Education and Psychology. A student may receive credit for this course from only one program.
See EDOE 145 for course description.
- PEAC 151. Scuba Diving (G-3) 1 hour**
This course is cross-listed with EDOE 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 EDOE 152, School of Education and Psychology. A student may receive credit for this course from only one program.

See EDOE 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 EDOE 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. Expenses will vary around \$800.

PEAC 212. Backpacking (G-3) 1 hour

This course is cross-listed with EDOE 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 life long 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 EDOE 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 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 3 will be assessed for this course. (Fall, Winter, Summer)

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:

- A. Own clubs
- B. Successfully completed Basic Golf
- C. Transportation to golf courses
- D. 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.

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.

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 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 .
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.
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. (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 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 291. Photojournalism Practicum 1-3 hours

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 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 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.

PHTO 391. Photojournalism Practicum 1-3 hours

Prerequisite: Consent of instructor before arranging for practicum.
See PHTO 291 for course description.

PHTO 465. Topics in Photography 1-3 hours

See PHTO 265 for course description.

PHTO 492. Photography Internship 3 hours

Prerequisites: Completion of at least half the requirements for a major or minor in photography and School approval.

Students gain field experience in photography in a setting such as a newspaper or other publication, a studio, or other professional environment. This would occur preferably during an 8 to 12 week period the summer between the junior and senior year when no other college course is taken. At least 300 clock hours of work experience are required. Procedures and guidelines are available from the School.

PHTO 495. Directed Study 1-3 hours

See PHTO 295 for course description.

Physics**PHYS 127. Exploring Physics I (E-3) 3 hours**

An in-depth exploration of various fundamental topics in physics in an activity-based, directed-inquiry (lab/lecture) format. Topics may include motion, light, sound, and energy.

PHYS 128. Exploring Physics II (E-3) 3 hours

An in-depth exploration of various fundamental topics in physics in an activity-based directed-inquiry (lab/lecture) format. Topics may include heat, fluids, electricity, magnetism, and mathematical modeling. (PHYS 127 is not a prerequisite for PHYS 128.)

PHYS 155. Descriptive Astronomy: Creation and Cosmology (E-3) 3 hours

Constellations and eclipses, astronomical instruments, time and the date line and calendars, astronomical objects with their motions and distances, energy processes in stars and quasars and pulsars, black holes, the infinity (?) and expansion (?) of the universe. Cosmology, the formation and subsequent histories of the solar system and the earth, radioactive dating, life on other worlds, as seen from observational and Biblical perspectives. Three hours lecture each week, with optional opportunities for an observation period. (Fall)

PHYS 211-212. General Physics (E-3) 3,3 hours

Prerequisites: MATH 120, 121.

The algebraic and trigonometric treatment of mechanics, heat, sound, light, electricity and magnetism, and "modern physics." Applies toward the basic science requirement as a non-laboratory science if taken alone and as a laboratory science if taken with PHYS 213-214.

PHYS 213-214. General Physics Laboratory (E-3) 1,1 hours

Prerequisite: Previous or concurrent enrollment in PHYS 211-212.

Laboratory experience designed to illustrate the material in lectures, to familiarize the student with useful measuring apparatus, and to encourage a systematic development of scientific curiosity, caution, and method. (Fall, Winter)

PHYS 215, 216. General Physics Calculus Applications 1,1 hours

Prerequisites: MATH 181; previous or concurrent enrollment in PHYS 211-212.

Derivations and problems in General Physics using differential and integral calculus will be studied. Students completing PHYS 211-212 and PHYS 215, 216 will have taken the equivalent of General Physics with calculus. Two class periods per week. (Winter)

PHYS 265. Topics in Physics 1-3 hours

Selected topics presented in a formal classroom setting in specialty areas of physics not covered in regular courses. May be repeated for credit for different topics.

PHYS 295. Directed Study 1-3 hours

Prerequisite: 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.

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 412. (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 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 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 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 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.

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 244. Sales 2 hours

Principles and techniques of selling products and services based on understanding of buyer behavior, time and stress management, and effective persuasion.

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 354. Advertising Copywriting 2 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 370. American Humanics Management Institute (AHMI) 1 hour**
This course is designed to help students attain their American Humanics certification. Sessions held at AHMI give students certification in skills needed for American Humanics certification. Lab Fee 12 will be assessed for this course. Travel, food, and lodging is not included in lab fee. (Pass/Fail)
- PREL 391. Practicum 1-3 hours**
Prerequisite: Consent of instructor before arranging for practicum.
See PREL 291 for course description.
- PREL 406. Persuasion and Propaganda (W) 3 hours**
This course is cross-listed with COMM 406. A student may receive credit for this course from only one program.
See COMM 406 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 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.
- 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

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 EDOE 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 NRSNG 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 adviser and following an application process. Procedures and guidelines are available from the school. May be repeated for credit.

PSYC 297. Research Design and Statistics I 3 hours

Prerequisite: 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). (Fall)

PSYC 315. Abnormal Psychology (F-1) 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. (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 (F-1) (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 (F-1) (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. Adolescent Psychology 3 hours

This course is cross-listed with EDUC 423. A student may receive credit for this course form only one program

Prerequisite: PSYC 122 or PSYC 128.

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 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 psychology issues and contemporary problems. (Fall)

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 methodology, inferential statistics, and non-parametric methods of data analysis. Each student is required to complete an independent research project. Data analysis techniques utilize SPSS (Statistical Package for the Social Sciences).

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 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 adviser.

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**
Recommended: HIST 174, 175.
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

Recommended: HIST 174, 175.

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**RELB 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.

RELB 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. Lab fee 1 will be assessed for the National Biblical Greek exam.

RELB 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)

RELB 295. Directed Study 1-3 hours

This course is limited primarily to School of Religion majors and must be approved by the dean of the School of Religion. Occasionally the course may be conducted as a seminar and published in the schedule of classes. This course may be repeated for credit. (As needed)

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. Lab fee 3 will be assessed for the National Biblical Greek exam. (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 P 150. Introduction to 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.

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 P 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 P 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 P 252. Intermediate Youth Ministry 3 hours

Prerequisite: REL P 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 P 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; RELL 221; Junior status or permission of the instructor.

This introductory course examines the foundations for effective biblical preaching. Attention will be given to the call and preparation of the preacher, principles of biblical hermeneutics, the elements of sermon formulation, and principles of sermon delivery. A topical, biographical, or narrative sermon will be preached and analyzed in a peer-review setting. (Fall)

REL 322. Intermediate Biblical Preaching 2 hours

Prerequisite: RELP 321; Junior status or permission of the instructor.

This course focuses on the preparation and delivery of expository sermons. Attention will be given to the discovery of the exegetical idea of the text, the formulation of the homiletical idea, and how to preach with conviction. Expository sermons will be preached and analyzed in a peer-review setting. (Winter)

REL 340. World Missions (B-3) 3 hours

See RELP 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: RELP 361.

This course builds on the practical ministry skills introduced in Personal Evangelism I. In addition, urban evangelism, small groups outreach, and answering Bible objections will be covered. Students whose major or minor requires RELP 466 Public Evangelism, must take the course immediately before Public Evangelism. (Winter)

REL 391. Practicum 1-3 hours

See RELP 291 for course description.

REL 401. Fundamentals of Biblical Preaching 3 hours

Prerequisites: 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)

REL 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)

REL 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)

REL 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)

REL 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.

REL 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.

REL 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 14 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.

REL 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 disc over 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.

***REL 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.

REL 439. Prophetic Ministry of Ellen G. White (B-2) 2 hours

Prerequisites: REL 138; senior status only; and 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)

REL 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)

REL 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)

REL 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.

REL 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)

REL 485. Christian Theology II (W) (B-2) 3 hours

Prerequisite: REL 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)

REL 495. Directed Study (B-2) 1-3 hours

See REL 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.

RUSS 102. Elementary Russian II (D-1) 3 hours

Prerequisite: RUSS 101 or approval of the department.

This course emphasizes intermediate grammar, intensive reading of moderate difficult Russian language texts, and oral and written forms of communication. Lab work required.

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.

RUSS 208. Intermediate Russian II (D-1) 3 hours

Prerequisite: RUSS 207 or approval of the department.

This course continues an emphasizes on intermediate grammar, intensive reading of moderate difficult Russian language texts, and oral and written exercises

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 NRSRG 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.

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.

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. Social welfare services, policies, and their historical origins 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. (Fall)

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 also focuses on the impact faith-based organizations are having on the social welfare system. Lab fee 1 will be assessed for this course. (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 relationship between values, knowledge, and practice skills in communication and relationship building. Students are required to complete in-class role-playing and out of class client interviews demonstrating the concepts discussed. Interviewing Skills is a prerequisite for Social Work Practice I and Field Practicum I. (Winter)

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 NRSG 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.

SOCW 311. Human Behavior and the Social Environment I 3 hours

Prerequisites: BIOL 103; SOCI 125; PSYC 122; SOCW 211.

Co-requisite: SOCW 314.

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 314. Social Work Practice I (W) 3 hours

Prerequisites: BIOL 103; SOCW 211, 212, 213; Co-requisite: SOCW 318.

Provides students with theoretical framework for generalist social work practice. Topics include the establishment of relationship, assessment, contracts, intervention, 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 315. Social Work Practice II (W) 3 hours

Prerequisites: SOCW 314, 318.

A continuation of SOCW 314. The primary focus is on working with small groups and families, the mezzo dimension of social work practice, in this second semester of a three-semester practice sequence. This course focuses on strengths, capacities, and resources of client systems as they relate with their broader environments. Students learn to engage clients; identify issues, needs, strengths, and resources; collect and assess information; and plan service delivery. Practice content also includes identifying, analyzing, and implementing empirically-based interventions design to achieve client goals, and evaluating their effectiveness. Social Work practice courses can only be taken by non-social work majors if ALL prerequisites have been completed. (Winter)

SOCW 318. Social Work Practice Skills Lab 1 hour

Co-requisite: SOCW 314.

This skills lab provides students with direct field work experiences in social services agencies in the greater Chattanooga community. These field work experiences include application of assessment, intervention, and individual/family and group counseling skills. This class is to be taken concurrently with SOCW 314. (Fall)

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

This course introduces social work students to the role of the human service professional in the community setting. Students participate in an observational learning experience in a social service agency for 120 hours during the semester. Total immersion in the agency environment will give students a chance to expand their understanding of how human needs are met by families and the social service agencies that work with them. Students will apply the knowledge and skills they have learned in previous social work courses in their field placements.

SOCW 433. Social Work Practice III 3 hours

Prerequisites: SOCW 315, 497; MATH 215.

Third of a three-part practice sequence, the primary emphasis is on the macro-dimension of social work practice. Content includes engaging organizations and communities in an appropriate working relationship; identifying issues, problems, needs, resources, and assets found in organizations and communities; collecting and assessing information; and planning for service delivery within organizations and communities. (Winter)

SOCW 434. Social Welfare Issues and Policies 3 hours

Prerequisites: MATH 215; SOCW 212; 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 14 will be assessed for this course. (Fall)

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 becomes familiar with agency structures, functions, and programs. Successful completion of a research proposal for an agency-based research project is required for completion of the course. 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 NRSG 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..

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 are examined along with relevant data analysis techniques. Ethical considerations for doing research with human subjects and vulnerable populations are explored. The content prepares students to develop, use, and effectively communicate empirically based knowledge, including evidence-based interventions. Students will be prepared to apply knowledge in practice, policy, and evaluation in various social work fields. (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. (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. (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. (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. (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 and ENGL 216 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 and ENGL 216 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: ENGL 216; SPAN 243.

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 457. Latino Literature (D-2) (W) 3 hours

This course is cross-listed with ELIT 457. A student may receive credit for this course from only one program.

Prerequisite: SPAN 243 and ENGL 216 or approval of the department.

This course is designed to approach literary productions of U.S. Latinos and their cultural significance in contemporary U.S. society. The inevitable linguistic encounter on a 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 non-canonical authors in the U.S. (Fall, alternate years)

SPAN 458. Mexican-American Literature (D-2) (W) 3 hours

Prerequisite: SPAN 243 and ENGL 216 or approval of the department.

This course is designed to contemplate the literary production of "border" Spanish speakers, and their linguistic evolution into what is known today as Chicano/a literature. Such space of production also reflects and portrays a level of militancy that affects, and is projected through, this literary space. A variety of topics (including participation on U.S. economy) are geared to understand the cultural differences among Spanish speakers in the cultural space known as "America." (Winter, odd years)

SPAN 465. Topics in Spanish 1-3 hours

See SPAN 265 for course description.

SPAN 490. Comprehensive Examination Preparation 1 hour

This particular course is a time designed to provide academic support for Spanish majors who will be taking the departmental written examination required for graduation. Faculty will meet with the student regularly to assure that the student has covered all materials pertinent to this examination. Spanish majors must take this course prior to graduation in the last semester.

SPAN 495. Directed Study 1-3 hours

See SPAN 295 for course description.

Technology**TECH 105. Field Engineering (G-2) 3 hours**

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 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 155. Masonry and Foundations (G-2) 3 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 160. Carpentry (G-2) 3 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 trouble shooting 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 trouble shooting 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 (G-2) 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 driveability diagnosis and trouble shooting 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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** 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
 Josh Rhodes, B.S. (2007)..... Network Administrator
 Randi Raitz, A.A. (2001) 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
 Elaine Plemons, M.A., (2007)..... Dean, Academic Technology

Library

Josip Mocnik, Ph.D. (2008)..... Director, Library
 Genevieve Cottrell, M.Inf. (2001)..... Cataloger
 Patricia Beamn, M.S.L.S. (1998)..... Periodicals Librarian
 Stanley Cottrell II, M.L.S. (2004)..... Technical Services Librarian
 Frank DiMemmo, M.S. (1980)..... Media Librarian
 Ann Greer, Ph.D. (1995)..... Distance Education/Interlibrary Loan Librarian
 Daniel Maxwell, M.S.L.I.S. (2004)..... Electronic Resource Librarian
 Ron Miller, B.S. (1995)..... Library Computer Support
 Marge Seifert, M.S.L.S. (1999)..... Public Services Librarian

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
 Martin Hamilton, B.A. (1998)..... Associate Vice President, Financial Administration
 Russell Orrison (2003)..... Director, Purchasing

Accounting and Financial Services

Doug Frood, M.S. (2001)..... Controller
 David Huisman, B.S., C.P.A. (1993)..... Chief Accountant
 Mary Sundin, B.S. (1993)..... Senior Accountant

Human Resources

Pat Coverdale, B.S., SPHR (2001)..... Director, Human Resources
 David Olson, M.B.A. (1995)..... Payroll Accountant

Industries

Gary Shockley (2006)..... Manager, Village Market
 Rita Wohlers (1978)..... Manager, Campus Shop

Risk Management

Nancy Daily, B.A., CPCU (2004) 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

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 Fatcher, 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

Campus Safety

Kevin Penrod, B.S. (2007) Director, Campus Safety

Health Service

..... Family Nurse Practitioner

Residence Halls

Dwight Magers, M.A. (1993) Director of Residence Halls Housing and Dean of Men

Kassandra 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

Kevin Pride, B.A. (2007) Assistant Dean of Men

John Sager, B.A. (2001) Associate Dean of Men

Lisa Woodcock, B.A. (2004) Associate Dean of Women

..... Assistant 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

Sheila Smith, M.A. (1997) Disability Services Coordinator

Liane de Souza, M.S. (2003) Transition Services Coordinator

Midge Dunzweiler, M.S. (1993) Counseling Services Coordinator

Jeremy Moore, M.S. (2007) Career Services Coordinator

Church Pastors

John Nixon, D.Min. (2006) Senior Pastor

Alex Bryan, M.Div. (2007) 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
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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.)

Earl Aagaard—Ph.D., Professor of Biology

B.A. and M.A., Pacific Union College; Ph.D., Colorado State University. (2004)

Aaron Adams—M.F.A., Assistant Professor of Visual Art and Design

B.S., Southern Adventist University; M.F.A., Savannah Institute of Art and Design. (2002)

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)

Christopher Atkins, M.S.W., Assistant Professor of Social Work and Family Studies

B.S., Southern Adventist University; M.S.W., University of Michigan. (2001)

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 in 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., Associate 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)

Gennevieve 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., Assistant Professor of Journalism and Communication

B.A., Southern Adventist University; M.A., Syracuse University. (2004)

Denise R. Childs—M.A., Associate Professor of Communication

B.A., Walla Walla University; M.A., Washington State University. (1998)

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—M.Inf., Associate Professor of Library Sciences

BBibl, Hons Bibl and M.Inf., University of South Africa. (2001)

Stanley Cottrell II—M.L.S., Associate Professor of Library Science

B.S. and M.A., Andrews University; M.L.S., University of Maryland. (2004)

Randall Craven—M.S.Ed., Assistant Professor of Visual Art and Design

B.A., University of Missouri, Kansas City; M.S.Ed., Southern Adventist University. (2000)

Linda Potter Crumley—Ph.D., Professor of Journalism and Communication

B.A., Pacific Union College; M.A., University of California; Ph.D., University of Texas. (2004)

Judith Dedeker—M.S.N., Assistant Professor of Nursing

B.S. and M.S.N., Southern Adventist University. (2006)

Lisa Clark Diller—Ph.D., Professor of History

B.A., Southern Adventist University; M.A. and Ph.D., University of Chicago. (2002)

Alberto dos Santos—Ed.D., Professor of Education and Psychology

B.A., University of South Africa; Diploma, Orion Institute of Switzerland; M.A. and Ed.D., Andrews University. (1995)

Joan dos Santos—M.A., Associate Professor of English

B.S., Adventist University; M.A., Andrews University. (1995)

René Drumm—Ph.D., Chair and Professor of Social Work and Family Studies

B.S., Andrews University; M.S.W., Michigan State University; Ph.D., Texas Woman's University. (2003)

Brian Dunne—M.A.Ed., Assistant Professor of Visual Art and Design

B.A., Southern Adventist University; B.S., East Tennessee State University; M.A.Ed., Georgia State University. (2002)

Denise Dunzweiler—Ph.D., Dean and Professor of Education and Psychology

B.A. La Sierra University; M.A., Sonoma State University; Ph.D., Andrews University. (1996)

David Ekkens—Ph.D., Professor of Biology

B.A. and M.A., Andrews University; Ph.D., Loma Linda University. (1990)

Richard Erickson—M.B.A., Associate Professor of Business and Management

B.S. and M.B.A., Austin Peay State University. (1984)

L. Ann Foster—Ph.D., Professor of Biology

B.S., Southern Adventist University; M.S. and Ph.D., University of N. Texas. (1996)

Bonnie Freeland—M.S.N. Associate Professor of Nursing

B.S., Southern Adventist University; M.S.N., University of Tennessee at Chattanooga (1998)

Ileana Freeman-Gutierrez—Ph.D., Associate Professor of Psychology

B.A. and M.A., Andrews University; Ph.D., Ball State University. (2005)

H. Robert Gadd—Ph.D., C.P.A., Professor of Business and Management and VandeVere Chair Professor of Accounting

B.S., Southern Adventist University; M.B.A., University of Maryland at College Park; Ph.D., University of Texas at Arlington. (2000)

Holly Gadd—Ph.D., Professor of Nursing

B.S., Andrews University; M.S., Loma Linda University; F.N.P., Midwestern State University
Ph.D., Texas Woman's University. (2000)

Pam Gammenthaler—M.S.N., Assistant Professor of Nursing

R.N. and B.S., Walla Walla University; M.S.N., Loma Linda University. (2006)

Phil Garver—Ed.D., Dean and Professor of Physical Education, Health and Wellness

B.S., Southern Adventist University; M.S., Eastern Michigan University; Ed.D., University of Tennessee, Knoxville. (1976)

David George—M.F.A., Associate Professor of Visual Art and Design

B.A., Southern Adventist University; M.F.A., Savannah College of Art and Design. (1999)

Judith Glass—M.Mus., Professor of Music

B.Mus. and M.Mus., University of Texas at Austin. (1975)

Suzy L. Gloudeman—M.S.Ed., Assistant Professor of Education

B.S. and M.S.Ed., Southern Adventist University. (2007)

Lisa S. Goolsby—M.B.A., Assistant Professor of Business and Management

B.B.A., La Sierra University; M.B.A., Indiana Wesleyan University. (2008)

Zachary Gray—M.F.A., Assistant Professor of Visual Art and Design

B.S., Southern Adventist University; M.F.A., Savannah College of Art and Design. (2000)

Ann Greer—Ph.D., Professor of Library Science

B.G.S., Indiana University; M.L.I.S., Louisiana State University; Ph.D., Nova Southeastern University. (1995)

Norman Gulley—Ph.D., Research Professor of Religion

Diploma in Theology, Newbold College; B.A., Southern Adventist University; M.A. and M.Div., Andrews University; Ph.D., University of Edinburgh (Scotland). (1978)

Ed Guthero—B.S., Associate Professor of Visual Art and Design

B.S., Andrews University. (2002)

Tyson Hall—Ph.D., Associate Professor of Computing

B.S., M.S., and Ph.D., Georgia Institute of Technology. (2005)

Rick Halterman—Ph.D., Dean and Professor of Computing

B.S., Florida Southern College; M.S., Florida Atlantic University; Ph.D., University of Tennessee, Knoxville. (1987)

Jan Haluska—Ph.D., Chair and Professor of English

B.S., Pacific Union College; M.A., Andrews University; Ph.D., University of Tennessee, Knoxville. (1981)

Brent Hamstra—Ph.D., Professor of Chemistry

B.S., Andrews University; Ph.D., University of Michigan. (1999)

Chris Hansen—Ph.D., Chair and Professor of Physics

B.S., Southern Adventist University; Ph.D., Colorado State University. (1996)

Giselle Hasel—M.A., Assistant Professor of Visual Art and Design

B.A., Andrews University; M.A., Southern Adventist University. (2007)

Michael G. Hasel—Ph.D., Professor of Religion, Director, Institute of Archaeology

B.A. and M.A., Andrews University; M.A and Ph.D., University of Arizona. (1998)

Volker Henning—Ph.D., Associate Vice President for Academic Administration

B.A., Southern Adventist University; M.Div., Andrews University; M.A., University of Central Florida; Ph.D., University of Tennessee, Knoxville. (1989)

Debbie Higgins—Ph.D., Professor of English

B.A., Columbia Union College; M.A., Andrews University; Ph.D., Middle State Tennessee University. (1993)

Michael Hills—M.S.Ed., Assistant Professor of Education (2003)

B.A., Thomas Edison State College; M.S.Ed., Southern Adventist University. (2003)

Lorella Howard—M.S.N., Associate Professor of Nursing

B.S.N., Southern Adventist University; M.S.N., Vanderbilt University. (1994)

Jaclynn Huse—M.S.N., Associate Professor of Nursing

B.S. and M.S.N., Southern Adventist University. (2003)

***Julie Hyde—M.Acc., C.P.A., Assistant Professor of Business and Management**

B.S. and M.Acc., University of Tennessee, Chattanooga. (2005)

Douglas Jacobs—D.Min., Professor of Religion

B.A., Southern Adventist University; M.Div. and D.Min., Andrews University. (2002)

Barbara James—D.S.N., Dean and Professor of Nursing

B.S., Southern Adventist University; M.S.N., University of Texas, Arlington; D.S.N., University of Alabama, Birmingham. (1991)

Carmen Jiménez—Ph.D., Associate Professor of Modern Languages

B.A., University of Puerto Rico; M.A., University of Utah; Ph.D., Pennsylvania State University. (2004)

Cynthia Johnson—M.S.N., Assistant Professor of Nursing

MSN., Southern Adventist University. (2007)

Ronald D. Johnson—Ph.D., Professor of Mathematics

B.S., Southern Adventist University; M.S. and Ph.D., University of Texas at Arlington. (2006)

Gary L. Jones—M.S.W., Assistant Professor of Social Work and Family Studies

B.S.W., Oakwood University; M.S.W., Barry University. (2004)

Greg A. King—Ph.D., Dean and Professor of Religion

B.A., Southern Adventist University; M.Div., Andrews University; Ph.D., Union Theological Seminary. (2004)

Timothy D. Korson—Ph.D., Professor of Computing

B.A., Atlantic Union College; M.S., Ohio University; Ph.D., Georgia State University. (1995)

Dana Krause—M.S., Associate Professor of Nursing

B.S., Southern Adventist University; M.S., Texas Woman's University. (1992)

Henry Kuhlman—Ph.D., Professor of Physics

B.A., Emmanuel Missionary College; M.A., Western Michigan University; Ph.D., Purdue University. (1968)

Judson Lake—Th.D., Professor of Religion

B.A., Southern Adventist University; M.Div., Andrews University; D.Min., Reformed Theological Seminary; Th.D., University of South Africa. (1997)

Donn W. Leatherman—Ph.D., Professor of Religion

B.Th., Canadian Union College; M.Div., Andrews University; Ph.D., McGill University. (1992)

Terrie Long—M.S.W., Associate Professor of Social Work and Family Studies

B.A., Columbia College; M.S.W., University of South Carolina. (2006)

Carlos G. Martin—Ph.D., Professor of Religion; Director, R.H. Pierson Institute of Evangelism and World Missions

B.Div., River Plate College; M.A., Andrews University; M.Div and Ph.D., Southwestern Baptist Theological Seminary. (2001)

Daniel Maxwell—M.S.L.I.S., Associate Professor of Library Science

B.A., Walla Walla University; M.S.L.I.S., Indiana University. (2004)

Harold Mayer—Ph.D., Associate Professor of Physical Education, Health and Wellness

B.S., Pacific Union College; M.P.H., Loma Linda University; Ph.D., Walden University. (2004)

Sylvia Mayer—M.S., Associate Professor of Nursing

B.S., Southern Adventist University; M.S., San Jose State University. (2004)

Benjamin McArthur—Ph.D., Chair and Professor of History

B.A., Andrews University; M.A. and Ph.D., University of Chicago. (1979)

Callie McArthur—M.N., Associate Professor of Nursing

B.S., University of Mississippi; M.N., Emory University. (1979)

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**Study Leave*

2008-09 University Committees

Administrative Committees

- Administrative Council: Gordon Bietz, Chair
- Audio-Visual Services Committee: Volker Henning, Chair
- Employee Wellness Committee: Phil Garver, Chair
- Financial Appeals Committee: Marc Grundy, Chair
- Fund Raising Committee: Chris Carey, Chair
- Heritage Museum Committee: Chris Carey, Chair
- Human Resources Committee: Tom Verrill, Chair; Pat Coverdale, Associate Chair
- Key Committee: Kevin Penrod, Chair
- Loans and Scholarships Committee: Marc Grundy, Chair
- Naming Committee: Ben Wygal, Chair
- New Student Orientation Committee: Liane de Souza, Chair
- Planned Giving Committee: Chris Carey, Chair; Tom Verrill, Vice Chair
- Promotional Tours Committee: Vinita Sauder, Chair
- Public Art Committee: Ben Wygal, Chair
- Safety/Risk Control Committee: Tom Verrill, Chair
 - EPA and OSHA Compliance Subcommittee: Nancy Daily, Chair
- Traffic Appeals Committee: Kevin Penrod, Chair
- Web Oversight Committee: Ruthie Gray, Chair

Other Committees:

- Assessment and Effectiveness Review Committee: Hollis James, Chair
 - Retention Committee: Vinita Sauder, Chair
- Budget and Financial Statement Review: Tom Verrill, Chair
- Crises Management Team: Gordon Bietz, Chair
- Diversity Committee: Dennis Negron, Chair
- Faculty Affairs Committee: Kevin Brown, Chair
 - Distinguished Service Medallion Subcommittee: Stephen Ruf, Chair
- Faculty Promotions Committee: Robert Young, Chair
- Grievance Committee: Jan Haluska, Chair
- Honorary Degrees Committee: Ken Caviness, Chair
- Sabbatical Committee: Robert Young, Chair
- Social/Recreation Committee: Linda Marlowe, Chair
- Strategic Planning Committee: Gordon Bietz, Chair; Hollis James, Vice Chair

University Senate Committees

- University Senate: Lorraine Ball, Chair
- University Senate Executive Committee: Lorraine Ball, Chair

Academic Committees:

Graduate Council: Carleton Swafford, Chair

Off Campus Learning Committee: Volker Henning, Chair; Carl Swafford, Co-Chair

Academic Research Committee: Loren Barnhurst, Chair

Undergraduate Council: Robert Young, Chair

Academic Review Subcommittee: Volker Henning, Chair

Admissions Subcommittee: Marc Grundy, Chair; Volker Henning, Vice Chair

Advisement Subcommittee: Sharon Rogers, Chair

General Education Subcommittee: Robert Montague, Chair

Writing Subcommittee: Denise Childs, Chair

Honors Subcommittee (Southern Scholars): Mark Peach, Chair

Student Services Committees:

Discipline Review Committee: Kari Shultz, Chair

Student Intervention Committee: Januwoina Nixon, Chair

Student Personnel Committee: William Wohlers, Chair

Student Services Committee: William Wohlers, Chair

Disabilities Services Subcommittee: Sheila Smith, Chair

Film Subcommittee: David George, Chair

International Student Subcommittee: Liane de Souza, Chair

Screening Subcommittee: Scott Ball, Chair

Spiritual Life Subcommittee: Brennon Kirstein, Chair

Student Activities Subcommittee: Kari Shultz, Chair

Student Media Board: Stephen Ruf, Chair

Student Wellness Subcommittee: _____, Chair

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