

2018-19 Undergraduate Bulletin

Southwestern Adventist University

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Academic Calendar 2018-2019

Fall Semester, 2018	
August	
7/30-8/14 Mon-Tue	Summer Bridge
14-18 Tue-Sat	CORE
19 Sunday	Last Day to Register for FA'18
20 Monday	Instruction Begins
24 Friday	Last Day to Add a Class
September	
3 Monday	SCHOOL IS IN SESSION
4 Tuesday	International Student Orientation
5 Wednesday	Last Day to drop a Class without receiving a "W"
5 Wednesday	Enrollment Census
October	
10 Wednesday	Mid-semester
11-12 Thurs-Friday	Fall Holiday
19 Friday	Deadline for removal of SU'18 Incompletes
30 Tuesday	Last Day to Withdraw from a Class
November	
5 Monday	SP '19 Registration Begins
5-16 2 weeks	SP '19 Advising
19 Monday	Thanksgiving Break Begins
26 Monday	Instruction Resumes
December	
10-12 Mon-Wed	Examinations
12 Wednesday	Christmas Vacation begins-7:30pm
Spring Semester, 2019	
January	
6 Sunday	Last Day to Register for SP '19
7 Monday	Instruction Begins
11 Friday	Last Day to Add a Class
15 Tuesday	International Student Orientation
21 Monday	School Holiday, Martin Luther King, Jr. Birthday
23 Wednesday	Last Day to drop a Class without receiving a "W"
23 Wednesday	Enrollment Census
February	
15 Friday	Deadline for removal of FA'18 Incompletes
27 Wednesday	Mid-Semester
March	
1 Friday	Spring Break Begins
11 Monday	Instruction resumes

28 Thursday	Last Day to Withdraw from a Class
April	
1 Monday	Summer Registration Begins
7 Sunday	Major Field Exit Test
8 Monday	FA'19 Registration Begins
8-19 2 weeks	FA '19 Advising
May	
4/29-5/1 Mon-Wed	Examinations
3 Friday	Senior Consecration
4 Saturday	Baccalaureate
5 Sunday	Commencement

Summer Semester -- May 6 - August 15, 2019 Session I

Session I

On campus (6-weeks)

May 6 - June 14

May 6 Monday Class begins/last day to add a class

May 14 Tuesday Last day drop without receiving "W"/final day for refund

June 7 Thursday Last day to withdraw from a class

June 21 Thursday Grades due

Session II

On campus (6-weeks)

June 17-July 26

June 17 Monday Class begins/last day to add a class

June 25 Tuesday Last day drop without receiving "W"/final day for refund

July 19 Friday Last day to withdraw from a class

Aug 2 Friday Grades due

Distance Education

Online classes

May 6-August 15

May 6 Monday Class begins/last day to add a class

May 14 Tuesday Last day drop without receiving "W"/final day for refund

Aug 8 Thursday Last day to withdraw from a class

Aug 22 Thursday Grades due

About SWAU

Mission Statement

Southwestern Adventist University commits to educating a diverse student body in a Christ-centered environment shaped by Seventh-day Adventist Christian beliefs for service and leadership.

Vision

Believing in the transformative power of the Gospel and affirming the importance of the life of the mind, Southwestern Adventist University seeks to promote inquiry through faith, to balance tradition with innovation, and to become a force for positive and significant change in global society.

Values

1. Christ as our central focus.
2. Education that promotes achievement and enriches life.
3. Interaction that affirms faith, integrity, and humanity.
4. Responsibility for ourselves, our neighbors, and our world.
5. Service as a ministry for Christ.
6. Integration of Seventh-day Adventist beliefs and practice into daily life.

Brief History

Southwestern Adventist University was founded in 1893 as Keene Industrial Academy. Junior college level work was first offered in 1916 and the name was changed to Southwestern Junior College. In anticipation of offering baccalaureate work, the name was changed to Southwestern Union College in 1963. The first bachelor level classes were offered in 1967. In 1977, the college was renamed Southwestern Adventist College, reflecting its denominational affiliation. Graduate level work was begun in 1987; nine years later the institution changed its name to Southwestern Adventist University. The University has been accredited by the Southern Association of Colleges and Schools since 1958; first as a Level I institution (associate degrees), then in 1970 as a Level II institution (baccalaureate degrees), and since 1989 as a Level III institution (graduate degrees).

Geographical Region, Type of Students and Faculty

The University serves primarily the needs of the Seventh-day Adventist membership in the five states of Arkansas, Louisiana, New Mexico, Oklahoma and Texas. The University welcomes students from all religions and geographical areas, as well as from diverse ethnic, social, and cultural backgrounds.

To achieve its purpose effectively, the University recruits and retains well-qualified teachers, who are dedicated to teaching and advising and who are willing to spend time with students both in and out of the classroom. The University encourages research and scholarly endeavors on the part of its faculty.

Major Institutional Functions

The University provides a challenging environment conducive to the total development of the student, thus contributing to the realization of each individual's potential. The administrative departments of the University provide the infrastructure needed for the institution to fulfill its educational purposes.

The University's undergraduate curriculum consists of programs in the liberal arts and sciences, with a number of professional and preprofessional curricula. The general education component brings balance to the academic and professional programs, enriching the intellectual and cultural experiences of the student beyond the limits set by the specific major. The graduate curriculum includes master's degrees in education and psychology.

Student Learning Outcomes

The University graduate will:

1. Have knowledge in the humanities/fine arts, social/behavioral sciences, natural sciences and mathematics.
2. Be able to communicate effectively through the spoken word, the written word, and the use of other abstract symbol systems.
3. Be able to think critically and solve problems.
4. Possess the attributes of growth: ability, tolerance, self-reliance, compassion, and a love of learning.
5. Have a commitment to high moral and ethical standards.
6. Have knowledge of Seventh-day Adventist values and beliefs.
7. Possess leadership skills and a commitment to service.
8. Possess the knowledge, skills, and personal attributes to function effectively in the workplace.
9. Possess cultural sensitivity and a global perspective.

Accreditation and Non-Discrimination Policy

Southwestern Adventist University is accredited by the Southern Association of Colleges and Schools Commission on Colleges (1866 Southern Lane, Decatur, Georgia 30033-4097, telephone number 404-679-4501) to award: Associate, Bachelor, and Master degrees.

In addition, the University is currently accredited by the following accrediting bodies:

1. Adventist Accrediting Association of SDA Schools, Colleges, and Universities
2. International Assembly for Collegiate Business Education
3. Texas Education Agency
4. Texas Board of Nursing
5. Commission on Collegiate Nursing Education

The University is a member of the following:

1. Council for Higher Education Accreditation
2. Council of Independent Colleges
3. Independent Colleges and Universities of Texas
4. Hispanic Association of Colleges and Universities

Southwestern Adventist University does not discriminate on the basis of gender, religion, disability, race or ethnic origin. The University President, is responsible for compliance. The University believes the interpretation and implementation of all government laws and regulations are subject to constitutional guarantees against unreasonable entanglement with or infringement on the religious teachings and practices of the Seventh-day Adventist Church. Any regulation or change in regulation adopted by the Board of Trustees or the faculty at any time shall have equal authority as the regulations printed in this bulletin or the student handbook. Each student is responsible for knowing and observing the regulations of the University and is responsible for fulfilling the requirements for his or her degree as defined by the University *Bulletin*.

Admissions

As a Christian institution providing higher education in the liberal arts and selected professional areas, Southwestern Adventist University welcomes applications from students who will share the vision, values, and ideals of the university, and whose desire for a successful education experience will enable them to commit to the total program of learning, development and service. The university is committed to equality and does not consider race, gender, age, disability, color, or national and ethnic origin in determining qualifications for admissions.

Admission is granted to applicants who meet admissions requirements and who will uphold the standards of the university in accordance to the Christian principles as taught by the Seventh-day Adventist Church.

Students are advised that admission is contingent upon the integrity of the information submitted to the University. Discovery of false information could be grounds for withdrawal of the offer of admission or for immediate dismissal. Dismissal would result in forfeiture of all charges paid and academic credits earned.

Freshman Admission

To receive priority processing and scholarship consideration, applications should be submitted by March 1 for the fall semester and November 1 for the spring semester. Application deadline is August 1.

Regular admission requirements

Transcript: submit one of the following

- Official secondary school transcript with a grade point average (GPA) of at least 2.50 (on a 4.00 scale)
- General Education Development (GED) test average score of 500 with no score below 450. Texas GED 150-159 subject to committee review. 160-200 regular admission.
- Home school transcript with courses, grades, and dates of completion with a state-issued certificate of secondary school completion if applicable.
- General Certificate of Secondary Education: must have five (5) passes or more

Test Scores: one of the following

- ACT minimum composite of 17
- old SAT minimum of 830 for mathematics and critical reading
- new SAT minimum of 930 for mathematics and ERW (beginning March 5, 2016)

Early Admission Requirements

- Official secondary school transcript with a GPA of 2.75 or above
- ACT or SAT are required to be submitted no later than May 30 for merit scholarship and enrollment in fall. Students whose test scores do not meet the minimum requirement may have their admission status changed from Early to Summer Bridge.

Southwestern encourages the TEA Recommended High School Program of 26 credits, which will increase a student's opportunities for success.

- 4 credits of English/Language Arts
- 4 credits of Mathematics, including Algebra I, II, and Geometry
- 4 credits of Science, including Biology, Chemistry, and Physics
- 4 credits of Social Studies, including World History, World Geography, U.S. History, 1/2 credit Government, 1/2 credit Economics
- 1 credit of Physical Education
- 1/2 credit of Speech
- 1 credit of Fine Arts
- 5 1/2 credits of Electives
- 2 credits of Foreign Language Studies

Applicants taking Advanced Placement classes should consult the AP examination program in the Academic section of this *Bulletin* regarding scores necessary for college credit.

Summer Bridge

Students who do not meet one of the two minimum admission requirements (GPA or SAT/ACT) must participate in Summer Bridge. Learning takes place in a three-week session prior to the beginning of the freshman year and provides developmental learning support in the areas of math, reading, and writing. At the end of the session, student progress is assessed and students are placed accordingly in math and English. Summer Bridge includes one (1) credit which will apply toward the requirements for a degree. Session cost is \$400 which includes course instruction, housing, meals, books, field trips and weekend events.

Transfer Admission

To receive priority processing and scholarship consideration, submit applications by March 1 for fall semester and November 1 for spring semester. Application deadline is August 1.

Transfer Admission Requirements

- Official transcripts of all college/universities attended with a minimum cumulative GPA of 2.0
- Students with less than 24 credits will need to submit ACT/SAT scores and proof of secondary school completion

Academic credit earned from regionally accredited colleges and universities will be accepted as transfer credit subject to the following guidelines:

- Courses with grades of C- or higher will transfer
- Even though credit hours are transferable, the hours may not necessarily apply toward a particular degree program or general education requirements
- All courses taken at a community college transfer as lower-division hours only
- Courses considered technical, developmental/remedial, continuing education, cooperative education, extension, English as a Second Language, and non-credit classes will not transfer
- Transcripts submitted from non-accredited institutions are evaluated on a course by course basis
- Transcripts from universities outside the United States must be evaluated for the student by an independent evaluation service. Southwestern recommends the use of World Evaluation Services www.wes.org

Transfer students who have not completed the general education mathematics requirement and/or the freshman composition requirement prior to enrollment at the University should submit the ACT or SAT for English prior to registering for classes. Required test scores for ENGL 121 can be any of the following: SAT critical reading score of 450 before March 2016, SAT ERW of 480 beginning April 1, 2016, or ACT English of 17.

Applicants who do not meet the published requirements may be considered for admission on academic probation. A letter of intent to succeed along with two references need to be submitted to the Office of Admissions for consideration by the Admissions Committee.

Admission to the Nursing Program (Spring semester only)

Completed application deadline is August 1.

1. Apply online to Southwestern Adventist University at swau.edu/apply

2. Submit official transcripts from all colleges attended
3. Two professional reference letters
4. TEAS Test

August 6	Notification of admission status
October 15	\$200 Nursing deposit to reserve your place in the January class
November 5	Registration opens for spring classes
November 15	Be at registration Step 6 to avoid being dropped from the program.
November 15	Deadline to upload documents to CastleBranch:

- Physician's report of physical exam
- Current immunizations (MMR, HepB, Varicella, TB, Tdap, Influenza)
- CPR Card (American Heart Association-Basic Life Support)
- Complete fingerprinting process through CastleBranch

December 15	Submit BLUE card from the Texas Board of Nursing to CastleBranch
January 3	Nursing Orientation for all new nursing majors - Required
January 4	Step 7 of registration completed
January 7	Classes begin

Admission of International Students

The application deadline is May 1 for fall semester and October 1 for spring semester. Student must be fully admitted by June 1 for fall semester and November 1 for spring semester to allow sufficient time for the student to obtain an I-20 and obtain a student visa.

In addition to meeting the freshman or transfer acceptance requirements, an international student must submit official copies of all education documents validated by school or national officials. These should be in the original language, accompanied by a certified English translation.

Students for whom English is not their native language must submit any of the following tests with the minimum score listed:

- TOEFL* (Test of English as a Foreign Language)
- PBT old 550, PBT new 65, IBT 85, CBT 235
- IELTS 6.5
- iTEP 3.9
- PTE 55
- Michigan test 80

- SAT before March 2016 430 Critical Reading or 23 new SAT Reading
- ACT 17 English

or

- Transfer of a minimum of 24 semester credit hours from a college or university where English is the language of instruction.

International Student I-20 process - F1 Visa

All students needing an I-20 must meet the following:

- Submit legible copy of valid passport information page
- Submit at least three (3) bank statements that give evidence of income
- Submit the international student deposit of \$1000 which includes the \$200 residence hall room deposit, and a \$100 non-refundable processing fee
- Pre-payment of \$6500* for undergraduate students or graduate students
- Upon receipt of I-20 student must submit payment to SEVIS for I-901.

*If a student is not granted a visa and does not enroll, these funds will be returned minus the processing fee and any transaction fees.

Current immigration laws allow an international student with an F-1 Visa to work on campus up to 20 hours per week during the semester and up to 40 hours per week during vacations provided that the student is registered for the subsequent academic semester. While there are many campus jobs available, Southwestern does not guarantee student employment.

Major medical insurance coverage must be purchased through Southwestern at registration. If a student is already insured through the SDA system, he/she must provide documentation of equivalent insurance coverage. No insurance coverage refunds will be made after the second week of classes.

International students should not leave their homeland until they have the following:

- A letter of acceptance from Southwestern Adventist University
- An I-20 from Southwestern Adventist University
- A valid passport and F-1 Visa for travel to the United States of America

Application Procedure for Admission

Prospective students can apply at no cost online at www.swau.edu/apply or request an application packet from the Enrollment Services Office at enroll@swau.edu.

- Completed paper applications should be sent to the Admissions Office with an application fee of \$25.00.
- It is the responsibility of the student to request all transcripts and SAT or ACT scores to be sent to the Admissions Office at Southwestern Adventist University. These become the property of the University.
- When all documents have been received, the application, transcripts and test scores will be reviewed and the Admissions Office will notify the applicant of the decision.

Commitment Deposit

New students who are accepted need to submit a \$50.00 Commitment Deposit in order to reserve their place in the entering class. This allows access to student Portal and gives priority processing for financial aid. Priority deadline is May 1 for fall semester and November 1 for spring semester. Commitment deposits are applied to the student's account and are non-refundable if the student does not enroll.

Admission of Non-Degree Students

Special permission to register is extended to a variety of students wishing to take classes at the University. Academic transcripts are not required. Tuition and fee charges for these students are provided in the financial section of this Bulletin.

Non-degree students desiring to change to degree status must apply and meet all regular admission requirements.

Audit. Students who plan only to audit a class must submit a Special Student Admission Application and a request for registration.

Individual Distance Learning (IDL). Students taking on-line courses who do not wish to enroll for a degree program must submit an application and a request for registration.

Dual Credit/Dual Enrollment. The University has several programs available to high school students to take University courses on-line, on-campus, or at a Union academy. Students interested in these programs should contact the Office of Admissions and submit an application and a request for registration.

Teacher Certification. Individuals who need specific courses for certification must submit an application and a request for registration. Students interested in certification should consult the Department of Education section in this Bulletin.

Transient. Students enrolled at another college or university who wish to take a course must submit an application and a guest letter from their college or university.

Readmission to the University

Students seeking readmission after being unenrolled for one year must reapply and submit official transcripts from any subsequent college or university to the Office of Admissions.

Returning students will be readmitted provided there are no academic sanctions, disciplinary actions, or financial holds restricting enrollment. Students who are readmitted after two or more semesters of non-attendance must meet the degree requirements of the Bulletin in effect at the time of readmission.

Admission of Post-Baccalaureate Students

Southwestern Adventist University offers four-year graduates of any accredited college or university, including Southwestern, the opportunity to take additional undergraduate classes, to complete another undergraduate degree or to apply for graduate studies. Admission policies will apply to these students as follows.

- Additional classes only as a non-degree student
- Additional undergraduate degree as a transfer student

The tuition discount for post-baccalaureate students is 50% of full tuition cost.

Finances

Costs

Tuition, Room & Board Costs

Full-Time Student Package	Semester	Year
Tuition (12-17 credit hours)	\$10,452	\$20,904
SA Fee	110	220
Technology Fee	220	440
Total Tuition and Fees	\$10,782	\$21,564
Residence hall room	1,900	3,800

Credit Hour Charge

Courses taken below the 12-17 hour package will be charged at \$871 per credit hour. Courses taken above the 12-17 hour package will be charged at \$653 per credit.

Meal Plan Choices

Meal Plan Choices (required for resident hall students)

Meal Plan

- \$1,900 (per semester - includes \$125 for the Knight's Market and Grill*)

This meal plan is required for undergraduate students under the age of 22 who have 89 or less cumulative credit hours on their Southwestern transcript. This plan is for unlimited access to the cafeteria seven days per week.

Meal Plan 22

- \$1,100 (per semester)

Undergraduate students who are 22 years of age or older, seniors (90+credit hours), or off-campus students may select either the regular Meal Plan or Meal Plan 22. Meal Plan 22 is not unlimited access. The student is charged by the meal for each entry to the cafeteria with a \$50 per day limit, until the \$1,100 is used. A portion of this plan is used up each week regardless of entry into the cafeteria. Any portion of the \$1,100 may be spent in the Knight's Market and Grill*.

*The Knight's Market and Grill offers a variety of hot meals and made-to-order sandwiches as well as breakfast items, smoothies, snacks and beverages.

Please note these guidelines before selecting a meal plan:

1. A processing fee will be assessed for any changes to meal plans after the close of registration.
2. Refunds are on pro-rata basis only when withdrawing from school or moving from the residence hall.
3. Meal plans may not be shared with other students or guests.

Student Package includes:

- Tuition for a 12-17 hour class load
- Cap and gown for graduation
- Diploma

*A room in one of the residence halls beginning the Sunday of the week classes begin.

*Meals at the cafeteria:

- Fall Semester - beginning with the Sunday evening meal the week classes begin
- Spring Semester - beginning with the Sunday evening meal the week classes begin
- Reduced hours during Thanksgiving and Spring break
- The cafeteria website will show the holiday and inclement weather day schedules.

Use of the following:

- Library
- Computer Laboratories
- Science Laboratories
- Athletic Facilities
- Student Center
- Counseling Services

* These items are included in the Residence Hall Student Package only.

Residence Hall Requisites

All unmarried students under 22 years of age, taking six or more credit hours, are required to live in one of the University's residence halls. Residents are also required a meal plan offered through the cafeteria. Students who officially withdraw from Southwestern Adventist University will not be permitted to live in the residence hall after their official withdrawal date.

Off-Campus Living: Must meet the following requirements and be approved by the Dean of Students

- Be 22 years of age, *or*
- Taking six or less credit hours, *or*
- Have earned a bachelor's degree, *or*
- Live with immediate relatives (parents, grandparents, or siblings over 24 years of age in an established residence), *or*
- Be a senior with a good citizenship record, 90+ credit hours, and cumulative GPA of 3.0 *or* greater

Single students must live with the same gender, unless living with parents or grandparents.

Residence Hall Deposit

To reserve a room, students are required to pay a general deposit of \$200 to the respective residence hall. The deposit will be held until the student graduates, moves out of the residence hall, or withdraws from the University. Deposits are refunded to the student's account and will be released if there is no balance due. The deposit is refundable on condition that the checkout procedure of the residence hall is followed (see Residence Hall Handbook). Should a student cancel an application for admission before August 1, the deposit will be refunded.

Private Room Fees

Private room fees are an additional \$950 per semester subject to space availability, dean approval, and financial clearance.

Other Tuition and Fees

Audit Tuition

Tuition to audit a course is \$100 per credit hour, unless it is part of the tuition package. The SA fee and technology fee will be waived, but course and lab fees that are part of an audited class are not waived for audit-only students. Audit-only students will not have access to university services. Some courses are not available for audit.

Computer Science Program Fees

Computer Science majors will be charged a \$100 Program Fee each semester.

Consortium Agreement

Under a consortium Southwestern gives credit for courses taken at the other schools on the same basis as if it provided the training itself. The Consortium Agreement is initiated by the student and approved by both institutions. Students will be charged an administrative fee of \$100 for this process.

Distance Education Program

Distance Education Program tuition is \$697 per credit hour. There are no payment plans for this program. All charges must be covered at the time of registration through aid, credit/ debit card and/or cash. Distance Education Prior Learning Assessment recording fee is \$75 per course. Additional information about the Distance Education Program can be found on page 67. Because this is a discounted program, no Southwestern scholarships are available to students in this program.

Distance Education Program - Technology Fee

Technology Fee for Distance Education students will be prorated based on course load. \$55 per course, with a maximum of \$220 per semester.

Education Program Fees

Any student seeking Secondary Certification in Education or a major in Education will be charged a \$100 Program Fee each semester.

Freshman Orientation Fee

Attendance at Freshman Orientation is required of all freshmen students. A fee of \$350 will be assessed for this orientation.

Course Fees

- Art Class supply fee - \$40
- ACSM Personal Training Certification - \$289
- Advanced Video Production - \$150
- Athletic/SWAT Fee - \$80
- Audio Production lab fee - \$150
- Business Policies and Strategies - \$110
- Each Biology lab course fee - \$40
- Each Biology course that includes a 4-day field lab - \$140
- Each Chemistry lab course fee - \$40
- Film Production supply fee - \$150
- FIRS/FIRT/EMSP course fee - \$25
- Golf course fee - \$100
- Independent class fee - \$100 per credit hour
- Lifeguard Training Fee - \$80
- Media Techniques supply fee - \$150
- Music Ensemble fee - \$50
- Photo and Graphic editing lab fee - \$150
- Photography lab fee - \$150
- Photojournalism lab fee - \$150
- Principles of Marketing fee - \$30
- Video Production lab fee - \$150
- Visual Communication supply fee - \$150

Examination Fees

- Challenge, waiver, and validation preparation fee - \$85
- CLEP and challenge examination recording fee - \$25
- Michigan Test of English Proficiency - \$25
- Fees for exams such as Career, Aptitude, and Personality; CLEP; Michigan Test of English Proficiency; and SAT or ACT vary by exam. These fees must be paid in advance of taking the exam. Special examinations may also carry a preparation and recording fee.

General Fees

Student Association Fee - \$110 each semester is required of all undergraduate students.

Technology Fee - \$220 each semester is required of all students.

Fees

Fees are non-refundable after close of registration.

Graduate Program

Graduate Program tuition is \$871 per credit hour. Graduate hours are charged separately from the undergraduate tuition package. For further information about the graduate programs and available scholarships, please refer to the *Graduate Bulletin*.

Medical Laboratory Science

Medical Laboratory Science students will be charged an administrative fee of \$100 per semester during their clinical year. Check with the advisor regarding tuition and fees. Southwestern scholarships are not available for the clinical year during which the courses are taken at another institution.

Music Lessons

Music lessons are \$350 per semester above the cost of tuition (based on a minimum of ten half-hour lessons). There are no refunds after the second week of the semester.

Nursing Tuition Surcharge/Program Admission Fee

- \$200 non-refundable deposit is required to reserve your place in the January class.
- \$500 nursing fee is assessed the first semester in the Nursing Program.
- A \$300 tuition surcharge is assessed for each clinical nursing course.
- Drug testing will take place during the first semester. A fee of \$39 will be payable at that time.
- Background check as required by clinical facilities will be completed during the first semester. A fee of \$40 will be payable at that time.
- Subscription to CastleBranch compliance tracker. A fee of \$30 will be required to set up a CastleBranch account.

Psychology Program Fees

Psychology majors will be charged a \$50 Program Fee each semester.

Psychology, emphasis School Guidance majors will be charged a \$100 Program Fee each semester.

Senior Citizens

The tuition rate for senior citizens (65+) is \$100 per semester hour for courses taken for audit or credit. This does not apply to the distance education, nursing classes or discounted programs. There must be space available in the class.

Study Abroad Program

Adventist Colleges Abroad (ACA) students must submit a non-refundable \$100 application fee for the academic year study abroad program. There is a \$30 application fee for the summer program.

Students who study abroad through a college or university that is not affiliated with Adventist Colleges Abroad will be charged an administrative fee of \$100 per semester.

Summer Program

- Summer school tuition for on-campus courses is 75% of regular tuition.
- On-line courses are charged at 80% of regular tuition.
- Graduate classes are \$871 per credit hour.
- GEOL 240 The Dinosaur field course is \$290 per credit hour.
- HNRS 275 or 375 The Honors Study Tour is \$436 per credit hour.
- Summer Bridge Program \$400
- BIOL 225 Field Biology is \$436 per credit hour.
- BIOL 325 Field Ecology is \$436 per credit hour.

Student Missionary/Task Force Program Charges

Students who spend one year of their education as a student missionary or task force worker will be enrolled in 12 credit hours each semester. By this the University recognizes the legitimate full-time educational value of this experience. Six of these credit hours will count as elective credit toward graduation, while six will be non-credit hours. The student will be charged \$300 tuition each semester for a total of \$600 for the academic year. An application/processing fee of \$150 is charged at the time of application.

Other Expenses

Books

Students are given the opportunity to indicate if they want to charge books to their student account through BBA Corporation, the University textbook provider, during the on-line registration process. Students may charge up to \$600 to their student account per semester.

Checks

Returned checks not honored by the bank carry a \$35 charge.

Field Trip Costs

Students will pay for their own food and lodging on class trips.

Fines

An assembly fine of \$10 will be assessed for each absence beyond the two absences allowed in a semester. The cafeteria will assess fines for infractions of cafeteria policy.

The library will assess fines for overdue library materials and lost items. Residence halls will assess fines for improper checkouts, lost keys, and infractions of residence hall policies.

Miscellaneous fines may be assessed as deemed appropriate by the administration.

Graduation Dues

Graduation class dues are a mandatory non-refundable fee that covers expenses such as class gift, 25 graduation announcements, and miscellaneous class activities. The amount of this fee is voted by the senior class each year. This fee applies to campus as well as Distance Education Program students. When a student returns to obtain an additional degree and graduation dues were paid as an initial Southwestern graduate, only half of the dues will be required for each subsequent graduation class. Graduation dues are charged to the student account at the beginning of the semester in which the student will graduate.

Identification Card

An ID card is provided to the student for cafeteria, library, and athletic facility use. The card is valid as long as the student is enrolled. There will be a \$10 cash replacement charge for a lost, stolen, or damaged card. No student ID is issued to students who are auditing classes only.

Insurance

Automobile insurance is the responsibility of the student. The University does not carry insurance covering theft, loss, or damage of any kind.

Medical insurance is required for all students registered for 6 or more credit hours. Medical insurance can be purchased at registration for the academic year if the student is not covered by another plan. No refunds will be made after the second week of classes.

Immigration requires that all international students have twelve-month medical insurance coverage while in the United States. International students must purchase major medical insurance coverage through the University at the time of registration. Medical insurance from a home country will not be accepted. If a student is insured through the SDA General Conference system, the international student must provide documentation of equivalent insurance coverage. No refunds will be made after the second week of classes.

Personal property insurance is the responsibility of the student. The University is not responsible for the loss of personal property by fire, theft, or other causes. It is recommended that students arrange for insurance coverage of their personal belongings with an insurance agency of their choice. Residence hall students are advised not to keep money in their rooms.

Late Registration Fee

A fee of \$200 cash is required for requests to finish registration after the close of registration.

Low Balance Write-Offs

Credits or debits of less than \$5 will be written off at the end of the semester.

Transcripts/Diplomas

Southwestern Adventist University transcript services are provided by Parchment Exchange – including request and payment. The link to this service is located on the web portal. Costs: electronic transcripts - \$5, paper mailed transcripts - \$7, and additional charges for overnight and international mailings. Currently enrolled Southwestern students and Southwestern Union Conference Teachers need to contact the Records Office at 817-202-6200. A transcript is collateral for any unpaid student account balance. Transcripts and diplomas are not released if a student's account is not paid in full, if the student has not completed federal student loan counseling, if government loans are not current in repayment, or if the academic file is incomplete. If a check to pay off a student account balance accompanies a transcript request, the transcript will be held until the check is cleared. Requests accompanied by credit card information, a money order or a bank draft is processed more quickly. Replacement diplomas will be assessed a \$50 charge. (See Transcripts, Requesting on page 42.)

Payment Plans

Southwestern offers three payment plans for fall and spring semesters to help students manage their university expenses. Classes taken during the summer require full payment at the time of registration for each module.

Plan I - Cash

Full payment of semester charges that are not covered by student aid.

Plan II - Four-payment Institutional Education Loan (0% interest)

Under this plan, students are required to pay 65% of the semester charges at registration. Financial aid can be applied to the 65% payment. The remaining balance will be a zero percent interest loan divided equally over four payments due the 10th of each month, as follows:

Fall Semester

- July 15 Registration payment, minimum of 65% of semester charges
- August 10 First payment
- September 10 Second payment
- October 10 Third payment
- November 10 Final payment - balance owed on account

Students must go to the University portal in July to choose this payment option at www.portal.swau.edu.

Spring Semester

- December 15 Registration payment, minimum of 65% of semester charges
- January 10 First payment
- February 10 Second payment
- March 10 Third payment
- April 10 Final payment - balance owed on account

Students must go to the University portal in December to choose this payment option at www.portal.swau.edu.

Plan III - Three-payment Institutional Education Loan (0% interest)

Under this plan, students are required to pay 65% of the semester charges at registration. Financial aid can be applied to the 65% payment. The remaining balance will be a zero percent interest loan divided equally over three payments due the 10th of each month, as follows:

Fall Semester

- At Registration Registration payment, minimum of 65% of semester charges
- October 10 First payment
- November 10 Second payment
- December 10 Final payment - balance owed on account

Spring Semester

- At Registration Registration payment, minimum of 65% of semester charges
- February 10 First payment
- March 10 Second payment
- April 10 Final payment - balance owed on account

Any additional charges the student incurs during the semester will become a part of the institutional loan for payment plans II and III. These additional charges will be added to the next payment due. All institutional loans are to be paid in full by the end of the semester.

The University is advancing value to students in the form of educational services and a student's right to register is expressly conditioned upon the student's agreement to pay the costs of tuition and fees and any additional costs when those charges become due. Regardless of the student's eligibility for financial aid, the student is personally responsible for the full amount assessed as a result of the student's registration. In addition, failure to pay the costs of tuition and fees will result in a financial hold on the student's record which will prevent release of the student's academic transcript and diploma. The University may refer any past due account for collection and may authorize legal action against the student for the collection of this debt.

The student is liable for all reasonable collection costs, including attorney fees, court costs, and other charges necessary for the collection of a past due account.

Methods of Payment

Online -- Current students may pay online with a credit or debit card through their student portal.

Phone call -- Payments may be made to a credit or debit card by calling the cashier at 817-202-6299.

In-person -- Payments may be made by cash, check, or debit/credit card at the Cashier's Office on campus.

Mail -- Check or money orders may be sent to Student Financial Services.

Wire Transfer -- See instructions at www.swau.edu/bank-wire-instructions

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Spring Semester December 15 Registration payment, minimum of 65% of semester charges
January 10 First payment

February 10	Second payment
March 10	Third payment
April 10	Final payment - balance owed on account

Students must go to the University portal in December to choose this payment option at www.portal.swau.edu.

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Tuition, Room & Board Institutional Refund

Refunds to students dropping all, or some, classes will be prorated on a weekly basis as shown in the chart below. The date of withdrawal is based on the date the student files a drop voucher with the Records Office.

Week	Refund % Tuition
Registration Week	90%
Second Week	60%
Third Week	40%
Fourth Week	20%
Fifth Week	0%

Room and board charges will continue until the student's personal belongings have been removed from the residence hall and clearance has been filed with the residence hall dean. Room and board refunds are prorated on a daily basis.

Refunds are not made on these items:

1. Insurance
2. Missed cafeteria meals
3. Music lessons two weeks after registration day
4. SA fee
5. Technology Fee
6. Unattended classes

Return of Federal/State Funds

When a student receives federal student aid funds and subsequently withdraws from the University, a portion of these funds may have to be returned to the Federal Government. The return amount is based upon the percentage of assistance earned up to the date of withdrawal within the enrollment period. No return is required after the 60% point in time. Repayment to federal student aid funds will be made in the following order: Unsubsidized Federal Direct Loan, Subsidized Federal Direct Loan, Federal PLUS Loan, Federal Pell Grant, Federal SEOG, TEACH Grant, other federal funds. If it is determined that the student must return funds which were received directly, the student may set up a repayment plan through Student Financial Services. The University will apply this policy to all federal student aid recipients.

Return of State aid funds is calculated independently of the federal funds, according to State guidelines. During the first

week of the semester, 70%; second week 60%; third week 40%, fourth week 20%; and, the fifth week and thereafter, 0%.

Financial Aid

To receive federal or state aid, a student must meet certain eligibility requirements. Some of the basic requirements include U.S. Citizenship or permanent residency; high school diploma, GED, 60+ transferable college credits, or home school certification; and academic standards.

Federal Grant Programs

Eligibility for the following programs is based upon receipt and evaluation of the Institutional Student Information Record (ISIR), which is the result of the Free Application for Federal

Student Aid (FAFSA). To be guaranteed the maximum award for which the student is eligible, the FAFSA must be completed by Southwestern's priority date of March 1. Students are automatically considered for all grants for which they may be eligible.

Federal Pell Grant

This is a federally funded grant available to undergraduate students enrolled in a program leading to a degree. The actual award for each student is determined by the U.S. Department of Education through evaluation of the FAFSA. The annual award ranges from \$652 to \$6,095. Students may receive a lifetime limit of the equivalent of 6 years of undergraduate studies for a baccalaureate degree. Students who receive Pell Grants may have funds available to them for books during the first week of classes each semester. The student may either choose to charge the cost of their books to their student account through the University sponsored bookstore, or, if their aid results in a credit on their account, funds will be given to the student to purchase their books.

Federal Supplemental Educational Opportunity Grant (FSEOG)

This grant is funded through a combination of federal and University funds and is dependent on funding levels approved by the federal government. Annual awards at Southwestern range from \$100 to \$1,500 and are awarded to students who are also eligible for Federal Pell Grant. Students must complete the FAFSA by January 15 to be guaranteed receipt of this award.

TEACH Grant

This is a non-need based program that provides up to \$4,000 per year to students enrolled in an eligible program and who agree to teach as a highly qualified teacher in a high-need field, at a low-income elementary or secondary school for at least 4 years within 8 years of completing the program for which the TEACH Grant was awarded. Failure to complete the required teaching service results in

conversion of the TEACH Grant to a Federal Direct Unsubsidized Loan with interest accruing from the date the grant was disbursed. A student may receive up to \$4,000 per year with an aggregate limit of \$16,000. Applicants must complete a FAFSA, sign an Agreement to Serve, and be completing coursework necessary to begin a career in teaching. A minimum 3.25 cumulative GPA is required. Southwestern will award a TEACH Grant only after the student has been accepted to the Education Program.

Financial Aid — State Grant Programs

Information about grants available through your state of residence may be viewed at <http://www.studentaid.ed.gov/> and clicking "state government". Eligibility for the following programs is based on the results of the Free Application for Federal Student Aid (FAFSA). Some individuals who are not U.S. Citizens or U.S. Resident Aliens may have established residency in the state of Texas and may be eligible for Texas grants. Contact Student Financial Services for a TASFA application.

Tuition Equalization Grant (TEG)

The State of Texas has established a program to help equalize tuition between state-sponsored institutions and independent universities. To qualify for this grant a student must establish eligibility through the FAFSA (or TASFA for students who have established domicile in Texas and are not U.S. Citizens or Resident Aliens), be a Texas resident, not be a recipient of an athletic scholarship, and not be enrolled in a theological degree program. Annual awards at

Southwestern range from \$100 to \$3,200. Recipients must be enrolled at least three-quarter time. At the end of the academic year in which a student receives a renewal award the student must:

1. maintain an overall grade point average of at least 2.5
2. complete at least 75% of coursework attempted
3. as an undergraduate student complete at least 24 credit hours in their most recent academic year; as a graduate student, complete at least 18 credits in their most recent academic year

Federal/State Employment Programs

Eligibility for the following programs is based upon the results of the FAFSA. These programs are designed to give students work opportunities to help with University expenses and obtain experience that will complement each recipient's educational program or career goals. Students indicate on their FAFSA if they want to be considered for a work-study award. Funds are awarded on a first come, first served basis to students who have remaining eligibility for additional aid they may receive during the school year. Southwestern awards approximately \$2,200 for the year. Students receive the portion of their award that is actually earned through their work-study job.

Federal Work-Study (FWS)

This is a federal program. Students work on campus, or in a community service job, and are paid at least minimum wage with paper checks that can be picked up on scheduled pay days at the Business Office Cashier window.

Texas Work-Study (TWS)

This is a state-sponsored program. Students work on campus and are paid at least minimum wage with paper checks that can be picked up on scheduled pay days at the Business Office Cashier window.

Financial Aid — Student Loan Programs

Federal Student Loans

Eligibility for federal loans is based upon results of the FAFSA. Loans require completion of an initial master promissory note. Students receiving any of the following loans (except the Federal PLUS Loan) must complete entrance counseling before receiving the first disbursement of their loan and must have exit counseling before graduating or withdrawing from the University. Loans normally have a ten-year repayment period. Students may receive loans for up to 150% of the time needed to complete an undergraduate degree. Visit www.studentaid.ed.gov for additional information on federal loans, including interest rates, origination fees, and repayment options. Federal Direct Loan

This is a federally regulated undergraduate loan program with the U.S. Department of Education. Undergraduate students may borrow up to \$3,500 at the freshman level, \$4,500 at the sophomore level, and \$5,500 at the junior and senior levels, up to a maximum of \$23,000. Repayment begins six months after the student is no longer enrolled on at least a half-time basis.

Federal Unsubsidized Direct Loan

Students who have limited or no eligibility for the Federal Direct Loan may apply for the Federal Unsubsidized Direct Loan. In addition to the Direct Loan limits, dependent undergraduate students may borrow \$2,000 each year from the Federal Unsubsidized Direct Loan. In combination with the Direct Loan maximums, independent undergraduate students may borrow \$9,500 at the freshman level, \$10,500 at the sophomore level, and \$12,500 at the junior and senior levels with an aggregate limit of \$57,500. Interest payments can be made during the in-school period or will be capitalized.

Federal Direct PLUS Loan

Parents of dependent students may borrow under this loan program. A parent may borrow up to the cost of

attendance minus any other aid the student is receiving. Repayment begins on the date of the last disbursement for that loan period.

State Loan Programs

College Access Loan

The college Access Loan Program provides alternative educational loans to Texas students who are unable to meet the cost of attendance. A student must be a Texas resident, be enrolled at least half-time in a course of study leading to an associate's, bachelor's, or graduate degree, meet satisfactory academic progress requirements, and have good credit standing or provide a cosigner who has good credit standing and meets other requirements. Students may borrow an amount up to the cost of attendance less other financial aid. A 0%, 3% or 5% origination fee will be deducted from the proceeds of each loan, depending on credit qualifications. Interest is a fixed annual rate of 4.5%. Apply at www.elmselect.com.

B-On Time Loan Program

The Texas B-On Time Loan program is a zero-interest loan that is forgiven if recipients graduate 'on time' with a 3.0 or higher GPA. The availability of BOT loans is dependent upon funding by the Texas Legislature. Eligibility requirements are as follows:

1. Texas resident
2. Graduated in the 2002-2003 academic year or later, under the recommended high school program from a public or accredited private high school in Texas or received an associate's degree from an eligible institution no earlier than May 1, 2005.
3. Has not earned a baccalaureate degree
4. Enrolled full time in an undergraduate degree program, and
5. Has completed a FAFSA and is eligible to receive federal financial aid.

Private Education Loans

Southwestern Adventist University encourages all students to file the Free Application for Federal Student Aid (FAFSA) and be considered for all available aid programs. After exhausting the opportunities available from the federal aid programs, many students will consider private loan programs as a source of funding. As always, taking on debt for any reason should be done with considerable thought and only for the amounts needed. Additional information regarding the availability of federal student aid is available from the U.S. Department of Education at www.federalstudentaid.ed.gov.

The terms and conditions of credit-based private loan programs vary, and as such, students are encouraged to

review the details of the programs before selecting a private loan program. Private loans are not eligible for loan consolidation programs made available for federal student loans. Interest rates, fees (both at the time of borrowing and at repayment), credit checks, and annual and aggregate loan limits require careful evaluation by the student as a consumer.

As part of the application process, students will be required to complete the Private Education Loan Applicant Self-Certification Form available through their lender's website. Students may also obtain a Self-Certification Form from the office of Student Financial Services. Information needed to complete this form, such as cost of attendance, may be obtained from the student's Award Notification. The Cost of Attendance can be found in the Private Education Loans section on the University website.

Students can find a list of lenders who have made loans to Southwestern Adventist University students in the past at <https://www.elmselect.com>. There is also an option to search for additional lenders. Southwestern will process loan applications from any legitimate lender. Students and families DO NOT have to select one of the lenders listed on Southwestern's ELM website.

Applying for Federal/State Aid (Priority Date: March 1)

When students complete their FAFSA by the March 1 preceding the academic year during which they will enroll, they are guaranteed the maximum in grant money for which they have eligibility.

Complete Free Application for Federal Student Aid (FAFSA) new or renewal application at: www.fafsa.ed.gov. If student does not have access to the internet, he can request a paper application by calling 1-800-433-3243 or print an application from www.federalstudentaid.ed.gov. The application is available in English or Spanish.

Southwestern requests the following to award aid:

1. Results of your FAFSA.
2. Some aid applications require additional verification. Students will be informed of the additional document requirements.

Determining Financial Need

Financial need is calculated by subtracting the student's expected family contribution from the cost of education.

Cost of Education includes estimates for tuition, fees, books, supplies, room, board, transportation, and personal expenses.

Expected Family Contribution (EFC) is the amount a family can be expected to contribute to educational costs. The federal processing center arrives at this figure by evaluating the answers given by parents and students on the Free Application for Federal Student Aid (FAFSA).

Financial Need is the maximum amount of aid a student may receive from all sources when the student accepts any federal or state aid. Aid that is considered a part of the student's aid package includes: Federal loans, grants, and work-study; state loans, grants, and work

study; private scholarships, and educational subsidy. Federal Direct PLUS Loans and Federal Unsubsidized Direct Loans can be considered a part of the Expected Family Contribution.

Financial Aid Availability

Federal Pell Grants, Federal Direct Loans and Federal Direct PLUS Loans are available to students who have been determined eligible for these programs through the federal application process. Southwestern receives limited allocations for the following programs:

- Tuition Equalization Grant (TEG)
- Texas College Work Study
- Texas B-On Time Loan Program
- Texas College Access Loan (CAL)
- Federal Supplemental Educational Opportunity Grant (FSEOG)
- Federal Work Study

Some students who qualify for these programs may not receive the award or may receive a minimal award because they have not completed the FAFSA by the priority date. Students are encouraged to submit all required forms early to receive the maximum in available grant money.

An estimated financial aid award is sent to new students upon receipt of the FAFSA. Official financial aid commitments are made only after the student is accepted for admission to the University and the financial aid file is complete.

Contractual Studies and Financial Aid

Medical Laboratory Science- Students who attend one of our affiliated colleges for their final year of study in the Medical Laboratory Science should contact Student Financial Services to determine which institution will award financial aid.

Study Abroad (Adventist Colleges Abroad) - Enrollment in ACA is approved for credit by Southwestern Adventist University and may be considered as enrollment at Southwestern for purposes of applying for federal student financial assistance.

Study Abroad (Individualized Contract) -A student may solicit a contractual agreement between Southwestern and a foreign university for a year of study abroad. The Contractual Agreement form may be obtained from Student Financial Services. A limited number of applicants

will be approved each year. A fee of \$100 will be assessed by Southwestern each semester of study abroad through this program.

Financial Aid Academic Progress Standards

Southwestern Adventist University's Satisfactory Academic Progress (SAP) policy specifies the standards a student must maintain to be considered making progress in his/her course of study. The policy also establishes the criteria by which a student who has failed to maintain satisfactory progress may reestablish his/her eligibility for federal/state financial assistance.

Qualitative and Quantitative Components

Southwestern's satisfactory progress policy for undergraduate students contains a qualitative component which requires a cumulative grade point average of 2.0 at the end of each semester for undergraduate work. The quantitative satisfactory progress policy requires completion of a specified percentage of the coursework attempted as well as a maximum number of credits that may be attempted for the completion of a degree.

Attempted Hours	Completion Percentage Required
at 23	50%
at 55	58%
at 89	67%
90 +	67%

Each credit hour completed has a percentage minimum completion rate, beginning at 50% and ending at a minimum of 67% for cumulative credits of 90 or greater.

Maximum Attempted Hours

Baccalaureate Degree 192 (128 hour degree) 180 (120 hour degree) Associate Degree 96 Master's Degree 54 (MEd) 72 (MA)

Satisfactory Academic Progress Process

Academic progress will be reviewed at the end of each fall, spring, and summer term. When a student fails to meet the GPA and/or completion percentage standards they will be given a warning semester during which they are asked to complete a Satisfactory Academic Progress Agreement wherein they meet with their advisor three times over the semester. If the student is not making satisfactory academic progress at the end of the warning semester, the student will become ineligible for federal or state aid. To receive financial aid at this stage, the student must submit an appeal based on extenuating circumstances documenting the reason the student failed to make SAP. The appeal and documentation will be reviewed by the Student Finance Committee for approval. A student who

does not meet the prescribed academic plan in subsequent semesters, will be ineligible for further federal and state aid and may not receive federal student aid until SAP standards are met. Students who exceed the number of years for completion of a degree must complete a Satisfactory Academic Progress Appeal form to be reviewed by the Student Finance Committee. A hold is placed on the student's federal and state aid until the SAP agreement has been signed, or an appeal has been approved. Appeals may be made for the following reasons: 1) The student has experienced illness; 2) The death of a relative; 3) The student has a degree plan change; 4) The student, out of financial necessity, carried an extremely heavy workload over an extended period of time; 5) Upon recommendation of the Vice President for Academic Administration; 6) At the discretion of the Assistant Financial Vice President for Student Finance.

Tuition Equalization Grant (TEG) Requirements

Additional requirements apply to recipients of the Tuition Equalization Grant (TEG). At the end of an academic year in which the student receives a renewal award, the student must have completed 24 credit hours of coursework during the renewal year, and have a cumulative GPA of 2.5 or greater, with a 75% completion rate. These students may receive TEG for no more than five years for a 4-year degree program and three years for an associate degree program from the date of the first award. A student may appeal to receive a renewal TEG if they did not meet the requirements and there were circumstances that prevented them from attaining the required hours or GPA. In the event of hardship or other good cause, the Student Finance Committee may allow an otherwise eligible person to receive a TEG while enrolled less than three-quarter time or if the student's grade point average or number of hours completed falls below the satisfactory academic progress requirements.

Financial Aid Disbursement

Federal Pell Grant/Federal Supplemental Educational Opportunity Grant/Texas Tuition Equalization Grant -award is divided over two semesters. The Business Office transfers funds directly to the student's account.

Federal Direct Loan, Federal Unsubsidized Direct Loan, Federal PLUS Loan - one-semester loans will be disbursed in two disbursements, one at the beginning of the semester and one midway through the semester. The first loan disbursement for a freshman, first-time borrower will be made 30 days into the first semester. The Business Office transfers funds directly to the student's account.

Federal and Texas Work Study - student receives their compensation through the Business Office at regularly scheduled payroll periods.

Veteran's Benefits

Students with previous military experience may be eligible for certain benefits. Contact the Department of Veterans

Affairs (VA) records center and obtain a certificate of eligibility before school begins. Bring the certification to the Southwestern Adventist University Records Office. After registration, notification of enrollment will be sent to the VA.

Student Employment

Southwestern Adventist University is committed to providing a campus job to any student taking six or more credit hours. Students apply for a job by going directly to the department for which they wish to work, or by contacting the Student Employment Office. Many campus jobs will require that the student arrange a class schedule that will allow them to work all morning or all afternoon each weekday. Campus employment requires completion of the Federal I-9 form once the student has made arrangements with a department to work. The I-9 form MUST be turned in before the student can begin working. A student should be prepared to show documentation of identity and employment authorization. Original documents are mandatory, copies will not be accepted. Students will submit I-9 documentation to Campus Service.

Departments that hire students include:

- Academic Departments
- Administrative offices
- Building maintenance
- Cafeteria
- Custodial
- E.G. White Research Center
- Grounds
- KGSW Channel 18.1
- Laboratories
- Library
- Media services
- Radio Station 88.3
- Residence Halls
- Security
- Switchboard

Other options may be available through the Campus Services Office located next to the Student Center. You may reach this office by calling (817) 202-6240, during office hours.

Students who have a balance on their school bill can receive up to 20% of their paycheck. Students receive their school compensation through direct deposit at regularly scheduled payroll periods processed by the Business Office at regularly scheduled payroll periods. All students must submit their direct deposit information on Portal before they begin working.

Tuition Discounts — Canadian Discount

Canadian citizens residing within Canada are eligible for a \$2,000 discount per year.

Tuition Discounts — Lab School Graduate Students

Students who teach for one of the University's lab schools, a school in a district which has a contract with the Education Department for student teaching, will receive a 50% tuition discount for graduate classes taken on campus. Distance Education classes will be assessed an additional fee of \$65 per credit hour.

Tuition Discounts — Post-baccalaureate Student (PBS)

Post-baccalaureate students receive a 50% tuition discount for undergraduate courses. This does not include classes in nursing, student teaching, independent study, discounted tuition rates or Distance Education. Likewise, private lessons, audits, fees, and laboratory charges are not discounted. See page 11 for definition of PBS. Students receiving the PBS discount do not qualify for other University scholarships.

Scholarships

Scholarships are divided and distributed equally over the fall and spring semesters and are not applicable for summer sessions.

Southwestern scholarships, subsidies and awards cannot exceed costs for tuition (for 12-17 hours) technology and student association fees.

Scholarships listed here are available for full-time students taking 12 or more hours each semester at Southwestern's campus.

Southwestern reserves the right to change or amend any of the scholarship policies at any time.

Freshman Awards

A freshman student may qualify for one award from this category. To receive this award, a student must be enrolled for 12 or more credit hours each semester. Scholarships are disbursed over two semesters in an academic year.

Award

Southwestern Award of Excellence \$8,000 Trustee \$7,000 Presidential \$6,000 Academic Dean \$4,000 Achievement \$3,000

These awards include an additional \$1,000 credited to tuition costs if the student lives in the residence hall. These

awards are determined through a combination of the senior mid-year high school cumulative GPA + SAT/ACT scores.

The GPA is multiplied by 12.5. The ACT is multiplied by 1.4 or the SAT (combined Math and ERW scores) is divided by 35.5. The sum of the GPA and test calculation give a score that determines the award: Southwestern Award of Excellence 91-100; Trustee Award 85-90; Presidential Award 80-84; Academic Dean Award 70-79; Achievement Award 60-69.

Students can receive a renewal scholarship for three years provided they meet these criteria. Students must have at least one semester during consecutive fall and spring semesters with the following GPA's:

1. 3.5 or greater for the Southwestern Award of Excellence; Trustee Award
2. 3.25 or greater for the Presidential Award
3. 3.0 or greater for the Academic Dean Award
4. 2.5 or greater for the Achievement Award

Students increase their renewal scholarship up to the Presidential Award level by improving their GPA. The scholarship increases to the next higher scholarship level when the student:

1. Reaches the minimum GPA requirement of a higher scholarship during consecutive fall and spring semesters in a single academic year, and
2. Completes 12 or more hours of course work each of these two semesters.

Likewise, if a student has consecutive fall and spring semesters in an academic year below the expected minimum, the student will drop to the next lower scholarship.

Students who begin attending Southwestern in their first year of college but do not earn a scholarship for their freshman year, have a second chance for a scholarship based on their college GPA following the guidelines stated above.

A break in residency to attend another college or university may affect the renewal of these scholarships.

Leadership Scholarships

These scholarships are awarded to incoming freshmen at Southwestern, renewable for up to three years and are over and above any Southwestern academic scholarship for which the student qualifies for. If a student has held more than one office, only one scholarship can be awarded and will be given for the highest office held.

Award

- Student Association President \$1,000
- Senior Class President \$1,000

- Senior Class Valedictorian \$1,000
- Student Association Vice President \$1,000
- Yearbook Editor \$1,000

Award

Newspaper Editor \$1,000

- Senior or Junior class officer \$1,000
- Student Association officer \$1,000
- Leadership - Church/External \$1,000
- Pathfinder Team Leadership Training \$1,000
- Certificate (TLTC) or Master Guide \$500

Honors Scholarship

Honors Scholarships are given to students who are enrolled in the Honors Program and whose grade classification is above the freshman level:

- Sophomore \$500
- Junior \$1,000
- Senior \$2,000

The final \$1000 of the senior award is given only after the student has completed his/her senior thesis.

Southwestern Scholars

Southwestern Scholars Award - includes all Southwestern Scholarships \$20,564 (Full tuition) awarded to students who achieve the level of

- Finalist in the National Merit or National Achievement Programs
- Semifinalists are awarded \$10,782 (Half tuition)
- National Hispanic Scholar in the National Hispanic Recognition Program
- 99.5 percentile on the ACT or SAT (an ACT composite of 34 or a combined SAT ERW and math score of 1520), Test scores must be from a single national test date.

This scholarship is renewable if the student maintains a 3.5 cumulative GPA and enrolls for 12 or more hours each semester. Transfer students who were recognized by the National Merit organization as a Finalist or National Hispanic Scholar in the National Hispanic Recognition Program and who have at least a 3.5 cumulative GPA are also eligible for this award. Semifinalist who have at least a 3.5 cumulative GPA are eligible for half tuition. This scholarship, along with all other Southwestern scholarships, cannot exceed tuition. Likewise, credit balances from Southwestern scholarships and resources other than loans will result in a reduction of this scholarship. Students who qualify for both the Freshman Award and the Southwestern Scholars Awards, receive the higher of the two.

Transfer Scholarship

A transfer student, pursuing a first baccalaureate degree, with at least 24 cumulative college credits from other colleges may qualify for one of the following scholarships:

1. \$4,000 if cumulative GPA from prior colleges is 3.75+
2. \$3,000 if cumulative GPA from prior colleges is 3.50-3.74
3. \$2,000 if cumulative GPA from prior colleges is 3.00-3.49
4. \$1,500 if cumulative GPA from prior colleges is 2.75-2.99

All official transcripts from all previously attended colleges must be on file with Southwestern before this scholarship will be awarded. To receive this scholarship, a student must be enrolled for 12 or more credit hours each semester. This scholarship is renewable for two years for students transferring 24-55 credits, and one year for students transferring 56-89 credits. The

scholarship is not renewable for students transferring 90+ credits. This scholarship is renewable only for students who are in a good academic standing, who maintain a commendable citizenship record.

Need-Based Scholarships

Need-based scholarships are given to students needing additional help with expenses after the student has pursued all other sources of aid, including loans. Students who have a private residence hall room or excessive miscellaneous charges such as fines, should not expect that they will be given need-based aid.

3-Way Match Scholarship

A 3-Way Scholarship allows a student's family, church or a concerned person, and Southwestern Adventist University scholarship funds to assist with payment of the Southwestern student account. It is the responsibility of the student to obtain a commitment from two different sources. Thus, contributions of \$500 each from two different sources may be matched by \$500 from the university. While \$500 is the maximum award, smaller 3-Way donations can also be matched.

It is important to note that application for these funds does not mean automatic approval of the Southwestern matching portion. This match is put on the student's account after the student's final payday each semester, and is subject to the following criteria: a) application and acceptance for federal/state grants and loans, b) unmet need by the federal aid calculation, and c) unmet expenses after all other aid and student earnings. A student who has a private residence hall room, has excessive miscellaneous charges such as fines, or receives educational allowance, is not eligible to receive a 3-Way Scholarship match. To receive the Southwestern match, all contributions must be received by December 1 for fall semester and April 1 for spring semester.

Callicott Scholarship

The Callicott Scholarship is available to students who may need assistance after federal, state, and institutional aid. Applicants must be working, placing earnings on their accounts, have applied for federal/state grants and loans for which they are eligible, and have a minimum GPA of 2.0. This scholarship is awarded late in the semester. A thank-you note is required.

Pechero Family Scholarship

The Pechero Family Scholarship is need-based, and offered to residents of the following Texas counties: Bee, Bexar, Calhoun, Cameron, Galveston, Harris, Hidalgo, Jackson, Nueces and Willacy. A limited number of these scholarships are available and applicants will be individually evaluated as to eligibility. The evaluation takes into consideration application for and acceptance of federal/state grants and loans, expected student earnings and academic standing. Applications may be obtained by contacting Student Financial Services. All awards for an academic year will be determined before the beginning of each fall semester. Students may receive this award for up to four years. An application is required each year. A thank-you note is required.

Southwestern Union Educational Endowment Scholarship

The Southwestern Union Educational Endowment Scholarship is given only to Seventh-day Adventist students from the Southwestern Union Conference territory who:

1. are enrolled full time at Southwestern Adventist University
2. give evidence of commitment to their local church program and willingness to participate in God's work
3. have an established financial need
4. maintain an acceptable scholarship and citizenship record

Applications may be obtained through Student Financial Services. Yearly awards range from \$300 - \$1000. A thank-you note is required.

General Scholarships

Scholarships in this section have specific eligibility criteria as indicated below. Some of these scholarships require enrollment of at least 12 credit hours for the semester, others will be adjusted for less than full-time study. The combination of scholarships, grants, subsidies and Southwestern discounts cannot exceed charges. Southwestern does not pay its scholarships in cash to the student. Southwestern encourages students and parents to search for scholarships through local service clubs or employers. Scholarship sources can also be found by searching the Internet.

Family Discounts

Three or more students from the same family, each taking at least 12 hours of coursework, will receive a 10% discount on tuition. Two students from the same family, each taking at least 12 hours, will receive a 5% discount on tuition. When students marry, they are no longer eligible for this special discount as a member of their parent's household. Married couples, taking at least 12 hours of coursework each, may receive the 5% discount on tuition. This discount does not apply to PBS or discounted programs.

Music Scholarships

Festival Performance Scholarship Students must audition as part of the Southwestern Music Festival. A number of students are chosen as finalists from the auditions. The selected scholarship finalists will perform at the Festival Showcase Concert on the eve of the festival. Scholarship is based on level of performance.

Student Missionary & Task Force Worker Scholarships

Southwestern awards scholarships to students who successfully complete a full term of service no shorter than 8 months in an approved student missionary or task force program. These awards are evenly divided over the two semesters of the school year immediately following the return of the student missionary or task force worker. Student Missionary \$1,200 and Taskforce \$1,200.

Summer Ministries Scholarships

Southwestern students who work between school years in a summer ministries program (such as at a summer camp or as a literature evangelist) will receive a scholarship worth 75% of whatever portion of their net earnings they apply to their account, up to \$2,000. The student's earnings are applied to the fall semester and the Southwestern match is applied to the spring semester. If the student does not return for the second semester, this scholarship is forfeited. To receive the full scholarship, a student must be enrolled for 12 or more credit hours in the semester. This scholarship will be awarded only in the academic year immediately following the summer work. This scholarship is not available to students taking Distance Education classes or students receiving the PBS.

Summer Work Scholarship

Students who pay rent for campus housing during the summer, work a certain number of hours at a campus job, and place at least 80% of their earnings on their student account, may be eligible for a scholarship the following year. Applications are available at Student Financial Services.

Working Policy

For clarification of the working policy for any items in the Finance Section of the Bulletin, contact the Assistant Financial Vice President for Student Financial Services.

Endowment Scholarships

To give formal and public recognition for outstanding scholastic achievement, loyalty to university standards, and exemplary citizenship, the University awards named scholarships each year. Recipients are selected based on criteria established by the scholarship donors.

The University is grateful to the donors who support Southwestern students by establishing these endowed scholarships. Those interested in creating a named scholarship may contact the Office of University Advancement.

- Class of '93 Senior Scholarship
- Frank H. Abel Scholarship
- Alumni Honoree Scholarship
- Marvin & Dee Anderson Scholarship
- Victor Baca Scholarship
- Isaac Baker Scholarship
- Norma P. Bartolome Scholarship
- Nathan L. Beebe Scholarship
- Thelma Beem Scholarship
- Jessie Casey Belz Scholarship
- Irene Black Scholarship
- Mardian J. Blair Scholarship
- Board of Trustees Scholarship
- Frances Draper Brennan Scholarship
- Edward & Sylvia Brickman Scholarship
- Raleigh & Edith Burchfield Scholarship
- John & Remy R. Cabansag Scholarship
- T.A. Jack Casey Scholarship
- Frances I. Clark Scholarship
- Jimmie C. Culpepper Scholarship
- John & Joan Curnow Student Missionary Scholarship
- Dino Dig Field Research Scholarship
- Clarence W. Dortch Scholarship
- Judson N. Durrant Memorial Music Scholarship
- Edwards-Wiest Scholarship
- Eli Fund
- El Jean Scholarship
- Entrepreneurship Award
- Joseph & Dina Espinosa Scholarship
- Sadie Goodwin-Richardson Scholarship
- Lessie Culpepper Hagen Scholarship
- Dr. F.E.J. & Marjorie Harder Scholarship

- Orville Lee & Laura Judge Hayes Scholarship
- Alvin C. Heinrich Scholarship
- Dale Heinrich Music Scholarship
- Cecil & Mary Ellen Hopps Scholarship
- James K. Hopps Scholarship
- Claude Hughes Student Help Scholarship
- Victorine Zaidan Kafrouni Scholarship
- Ishak Hanna Kafrouni Memorial Scholarship
- Cecil E. Lambeth Scholarship
- Elder George E. & Pearl Leffler Scholarship
- George E. Leffler Theology Scholarship
- Florence Lemke Nursing Scholarship
- George Mathews Scholarship
- Daniel & Ruth McAdams Scholarship
- Jason Mickley Scholarship
- Raymon & Zora Jean McMullen Scholarship
- Cyril & Marian Miller Scholarship Funds
- Fred B. & Blanche Gilbert Moore Scholarship
- Peggy A. Norris Memorial Scholarship
- Sheree Parris Nudd Communication
- Odyssey Harbor Scholarship
- Shirley Pinterich Scholarship
- Charles Popejoy Memorial Scholarship
- Bruce Prindle Scholarship
- Ed & Janelle Reifsnyder Scholarship
- V.L. & Alga Robers Scholarship
- Herbert & Irene Roth Scholarship
- Alma Saylor Sandefur Scholarship*
- Carol Sample and Ben R. Condray Scholarship

- Cree & Mildred Sandefur Scholarship
- School of the Prophets Scholarship
- E. Frank & Joy Hargrove Sherrill Scholarship
- Sicher Family Scholarship
- Villa Gillis Sierk Scholarship
- Marc Simpson Memorial Scholarship
- Eugene Sorensen Scholarship
- Spells Family Scholarship
- Wes Stoops Scholarship
- Southwestern Union Scholarship
- Student Association Presidents Scholarship for Leadership
- Grace E. and Eugene V. Thomsen Memorial Honors Scholarship
- Dudley & Reta Kent Tomblinson Scholarship
- Trixie Pearl Scholarship
- Herman & Birdie Walker Scholarship
- Wallen Knight Scholarship
- Weis Heritage Scholarship
- William V. Wiist Scholarship
- Brandon Michael Williams Scholarship
- P. Harlan & Jean Wilson Scholarship
- Paul L. & Dorothea A. Wilson Scholarship
- George W. & Mary A. Winn Scholarship
- Wisdom Nursing Scholarship
- Ernest & Vera Wolfe Scholarship
- Harold L. Wright Scholarship
- Perfil & Pauline Zapara Scholarship

* Scholarships for which students must apply.

Academics

General Academic Information and Policies

Academic Policies

The rules and regulations by which a university operates its program are called academic policies. At Southwestern Adventist University these policies are continually under review by the faculty to assure consistency with the curriculum and fairness to students. The Academic Policies Committee oversees the implementation of these policies.

Academic Semesters

The academic year is divided into semesters:

1. Fall Semester
2. Spring Semester
3. Summer Semester

The **academic calendar** shows important dates and deadlines for each semester.

Attendance

The University attendance policy requires regular and punctual class attendance. No assigned work is excused because of absence, no matter what the cause. Records of class attendance are kept by the faculty. Students who miss an instructional experience are expected to meet with the class instructor to discuss their absences as soon as possible. Except for emergencies, the student should make arrangements with his/her teachers prior to any absence. When an accumulation of absences reaches the point of endangering a student's academic status, the class instructor should report this situation to the student and the Vice President for Academic Administration. The instructor should not assume that continued absence from class indicates an official withdrawal until notified by the Registrar.

Official university absences may be granted by the Vice President for Academic Administration for either academic or activity reasons. Academic Absences include class and major field trips while Activity Absences include music, mission, gymnastics, and recruitment trips. Faculty or staff who wish to have an event sanctioned for official university absence status must submit the names of all students, including date and hours absent from campus, to the Vice President for Academic Administration's Office no later than one week prior to the date of the activity. The Vice President for Academic Administration will review and approve/deny the request as appropriate and forward the names for publication and distribution to all faculty through email. Students may miss classes because of approved Academic Absences and may miss up to one class hour for each credit hour of the class for approved Activity Absences. Arrangements for additional absences must be worked out by the student and the teacher involved. Faculty will report to the full faculty the names of students

who actually attended that activity. When an official university absence occurs, faculty members must either average work missed or allow the student to make it up at the faculty member's discretion.

Serious illness or family emergencies may be verified by the Vice President for Student Services but are not considered official absences.

Illnesses that will be verified are those involving hospitalization or serious injury. When a serious illness or emergency has been verified, each instructor should assist the student in making up missed work or the instructor may average missed work into the student's grade. Faculty members should specify the appropriate time frame for making up missed work.

Unapproved absences should not exceed one class hour for each credit hour of the class. Unapproved absences beyond this number may subject the student to a lower grade, or failure, in the course. Classes missed when a student registers late will count as unapproved absences.

Class Schedule

Class schedules are available on-line through the student portal. Although every effort is made to be accurate in listing course offerings, the University reserves the right to make essential course changes, to discontinue any course for which an insufficient number of students register, or to change the semester in which a course is offered.

Student Class Load

A student's class load is the total number of credit hours enrolled during a semester.

Class Load	Credit Hours
Part-time	1-5
Half-time	6-11
Full-time	12-17
Overload	18 or more

In order to graduate in 4 years or eight semesters, a student's class load must average 15 credit hours per semester. A class load of 12 credit hours meets the minimum class load requirements for F-1 students, financial aid and veterans.

Overload Policy

First-time freshmen are not permitted to take more than 17 credit hours in a semester. Students desiring to take more than 17 credit hours must have a minimum cumulative GPA of 3.0, permission from their advisor and department chair, and must not have been on academic warning or academic probation (or returning from academic suspension) the previous semester. No more than 21 credit hours is permitted.

Communication

Every registered student is provided with a Southwestern e-mail account (@swau.edu). Regular notices about assignments, activities, schedule changes, campus closings, and other important matters are delivered via this account. Students should check their Southwestern account at least once a day for these messages. The University views announcements posted here as having been delivered to the student body.

Severe Weather Protocol

In the rare event of severe weather, an announcement will be made indicating that classes will be delayed or cancelled, or that the University will be open as usual on the following day. Students will receive a text alert from the University.

General Enrollment Policies

Registration

Registration is available to all students using the student portal. Official registration dates are published in the academic calendar of the Bulletin. Registration is not finalized until all procedures required by the University are completed and financial arrangements finished. Students who do not receive financial clearance by the first day of classes may have their class registration cancelled. Faculty advisors are assigned to assist students with registration and in planning an academic schedule. Advisor and advisee assignments are maintained by the Registrar and displayed on the student portal. It is important that a student becomes familiar with all degree requirements and understands the responsibility for completing them.

Registration without Official Transcripts

Students accepted on the basis of an unofficial transcript will be allowed to register for classes for one semester. Official transcripts must be on file for a student to register for continuing semesters.

Late Registration

Students may be allowed to register after the first week of the semester for justifiable reasons. They will be charged a late fee of \$200 and must obtain the permission of each instructor involved.

Changes in Registration

Changes in registration may be made according to the following procedures. Classes may be added during the first week of each semester with the approval of the instructor and the student's academic advisor. Students citing unusual circumstances may add a class during the second week of classes with special permission of the

instructor. Students may withdraw from individual classes by submitting a change in registration form to the Registrar signed by the student's academic advisor.

Withdrawal from the University

To officially withdraw from the University, a student must obtain a withdrawal form from the Registrar. The withdrawal form must be signed by a Student Finance Advisor and one of the following University personnel: the Vice President for Academic Administration, Vice President for Student Services, or Director of Counseling and Testing. The form must be returned to the Registrar after all signatures are obtained and the withdrawal will be effective as of the date returned. Refunds will be made according to University policy. If a student follows this procedure, a W will be recorded for each class for the semester of the withdrawal. Otherwise, the instructors of the student's classes will submit grades which will be recorded on the permanent record.

Students who officially withdraw will not be permitted to charge for expenses on campus or live in the residence halls after their official withdrawal date.

Individual Study Topics

Offers an individualized opportunity for students to research a specific topic with direction from the instructor. Students desiring to enroll in an Individual Study Topic course must submit a signed [Individual Study Topics form](#), available on the university website, to the Vice President for Academic Administration. All requests must be approved and submitted to the Records Office by the last day to add a class. Eligibility for Individual Study Topics requires a 3.0 GPA in the proposed area of study, a 2.75 cumulative GPA and appropriate class standing or permission of the instructor. All requests just be approved and submitted to the Records Office by the last day to add a class.

Directed Group Study

Provides academic departments an opportunity to offer courses in specialized or experimental areas, either lower or upper division, not listed in the undergraduate Bulletin. Student may be allowed to repeat the course for credit.

Academic Progression

A student may register for upper-division classes (numbered 300 and above) provided that she/he has completed a general education mathematics course, ENGL 121, has completed or is currently registered for ENGL 220, and has completed 30 credit hours of university course work.

Auditing

Students wishing to attend a class for personal enrichment, without completing course requirements, may register for the class on an audit basis with the following provisions:

1. Some courses are not available for audit.

2. The signature of the teacher for the class is required.
3. Registration to audit a class occurs during registration, if space is available. Priority for class registration is given to regularly enrolled students.
4. The level of participation in class requirements and activities is determined by the instructor.
5. Audited classes do not receive university credits and will not fulfill any departmental or university graduation requirements.

Repeating a Course

A course in the major or minor in which a student has earned less than C- must be repeated or, with the consent of the major advisor, may be replaced by another course in the same area. If a student takes a course and then repeats it, the highest grade earned will be used in calculating the GPA, though all grades remain on the permanent record. When a course is repeated elsewhere, both the transfer grade and the original grade of the course taken at Southwestern will be included in the calculation of the cumulative GPA. Students may not receive credit for a course more than once with the exception of music performance and individual study topics, unless specified in the course description. A course may not be repeated for credit by examination, but may be taken at another school.

Semester Credit Hour

One semester hour equals one 50-minute class period per week or three clock hours a week in supervised laboratory work. For each semester hour of academic work earned, a student is expected to spend two clock hours a week in outside preparation.

Independent Class

In certain unusual circumstances which jeopardize a student's academic progress, a catalog-listed course may be offered on an independent basis. An independent class consists of course work done outside the classroom under faculty supervision. Regular meetings will be held with the instructor. Distance education course work and conferences may be used if available and appropriate. Consequently, a course fee for private instruction will be charged in addition to tuition for the course. Generally, an independent class will be offered only if there are irreconcilable class schedule conflicts for juniors and seniors with graduation contracts and alternatives like a class substitution and/ or waiver is not possible. An independent class may only be used to repeat a course with approval from the Records Office. The faculty advisor submits a request on behalf of the student to the instructor of the course and his or her department chair. A [form](#) for this purpose is available on the University's website. The course fee is listed in the finance section of this Bulletin.

Internship

An internship is an on-the-job, career-oriented course for training in the student's major field. The student must make

arrangements with his or her major department prior to starting the internship. The student must sign a contract outlining the number of hours they are expected to complete, the written and oral assignments involved, evaluations required, etc. Registration must be completed within one academic year of the completion of the internship.

Grade Point Average

Two grade point averages are maintained by the University: (1) a semester average based on courses taken during a particular term, and (2) a cumulative average based on all college level work recorded on the transcript.

A student's grade point average (GPA) is computed by dividing the number of grade points by the number of credit hours attempted.

Grade Reports

Mid-term and final grade reports are available to students and advisors through the student portal. Students should check their grade reports carefully. If a student believes any part of the report is incorrect, the corrections must be made within 3 months, unless subject to the [Academic Appeals Procedure](#). Only the end-of-semester grades are recorded on the permanent record.

Grading, Recording & Qualifying Policies

Grade Point Average

Two grade point averages are maintained by the University: (1) a semester average based on courses taken during a particular term, and (2) a cumulative average based on all college level work recorded on the transcript. A student's grade point average (GPA) is computed by dividing the number of grade points by the number of credit hours attempted.

Grade Reports

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Grading System

Grade Symbol	Grade Points
A	4.0
A-	3.7
B+	3.3
B	3.0
B-	2.7
C+	2.3

C	2.0
C-	1.7
D+	1.3
D	1.0
D-	.07
F	0.0
P	Pass
NP	No Pass
I	Incomplete
W	Withdraw
AU	Audit
IP	In Progress
NC	No Credit
NR	Not reported by instructor
CR	Credit by examination*

*P and CR represent grades of C or better

Incomplete Grades

An incomplete grade of I indicates the student was unable to complete class work because of illness or other unavoidable circumstances. When an I is received, the work necessary to complete the class must be finished within nine weeks after the end of the semester. If the makeup work is of such a nature that it may require additional time, the student must seek approval of the instructor and request permission from the Graduate Council. Forms for the request are available with the [Registrar](#)

In Progress Grades

A temporary grade of In Progress (IP) may be awarded for courses that are designed to be completed over more than one semester, as indicated in the University Bulletin. The student must complete the remaining required work no later than the end of the following semester (including summer). At that time, a final grade must be reported by the instructor. If a final grade is not reported, the IP grade will be administratively changed to a grade of "F" or "NP".

Grade Changes

A grade may be changed only by the instructor responsible for the class. Changes in a grade are made by submitting a change of grade to the Registrar on [a form](#) available on the University's website. A student who feels that an improper grade has been received must notify the faculty member immediately upon receipt of the grade. All grades are final three months after they are posted.

Transcript

Southwestern Adventist University transcript services are provided by [Parchment Exchange](#) - including requests and payment. Costs: electronic transcripts and paper mailed transcripts - \$5, in person pick up - \$7. There may be

additional charges for overnight and international mailings. A transcript is not released if a student's financial account is not paid in full.

Classification of Students

Class standing is calculated after each semester grading period.

- **Freshmen** have completed 0-23 hours
- **Sophomores** have completed 24-55 hours
- **Juniors** have completed 56-89 hours
- **Seniors** have completed 90+ hours

Residency

A student in residence is someone who is regularly and continuously enrolled for classes at the University. A student breaks residence by not registering for classes for two or more semesters.

Academic Commendations & Sanctions

Students who are not making satisfactory progress are subject to Academic Sanction Policies involving four increasingly serious steps: Academic Warning, Academic Probation, Academic Suspension, and Academic Dismissal.

Dean's List/Dean's Distinguished List

The Dean's Distinguished List is for students who have a semester GPA of 3.75 to 4.00 on at least 12 hours of completed college level class work. The Dean's List is for students who have a semester GPA of 3.50 to 3.74 on at least 12 hours of completed college level class work. On both lists, at least 12 hours of the class load must be graded courses, not pass, credit, or other such designations, and there may be no incompletes. Special recognition is given at the end of each semester to students having high GPAs. These include the Dean's List and the Dean's Distinguished List.

Academic Warning

When a student's semester GPA falls below 2.00 while the cumulative GPA remains above 2.00, or in the case of a first-time freshman, the semester GPA and the cumulative GPA fall below 2.00, the student and the advisor will receive a letter indicating the student has been placed on Academic Warning. There are no restrictions on registration but the student will be encouraged to enroll in UNIV 011 University Strategies the next semester.

Academic Probation

When a student's cumulative GPA falls below 2.00 (except in the case of a first time freshman as noted under "Academic Warning"), or when the student's semester GPA falls below 2.00 for two consecutive semesters, that

student is placed on Academic Probation. Transfer students admitted to Southwestern with a GPA lower than 2.00 will also be placed on Academic Probation. The probationary status is communicated in writing to the student and the advisor. The Vice President for Academic Administration and the Center for Academic Success and Advising will monitor the student's progress during the probationary period. A student on Academic Probation must be aware that her/his academic career is in serious jeopardy and that some programs and activities, including financial aid, may not be available.

Academic Probation includes the following conditions designed to help students improve their academic performance:

1. Late registration is not allowed
2. Enrollment is limited to 13 semester credit hours and emphasizes repeating classes for which D or F grades were received
3. Enrollment in UNIV 011 University Strategies, unless completed previously
4. A biweekly conference with the Center for Academic Success and Advising
5. Completion of all registered classes with minimum term GPA of 2.0

A student meeting these conditions continues on academic probation until the cumulative GPA reaches 2.00.

Academic Suspension

A student who fails to meet the probation conditions during any probationary semester will be placed on Academic Suspension for one semester. During the suspension period the student may not register for classes at Southwestern Adventist University. A suspended student may apply for readmission to Southwestern Adventist University after successfully completing at least one 12 semester hour term at another school.

Academic Dismissal

Suspended students who are readmitted and who then fail to raise their cumulative GPA, or have a deficiency which makes it unreasonable to anticipate eventual completion of degree requirements, will be academically dismissed. Dismissal is a permanent dismissal from the institution. Students academically dismissed may not reenroll in the institution at any time.

Final Examinations

In order to complete the semester, each student must take final examinations as scheduled. The final examination schedule is part of the class schedule and is available to students and faculty through the portal. **It is the student's responsibility to arrange travel in a manner that will not interfere with the examination schedule.** Requests for modification of a student's final examination schedule because of unforeseen emergencies

must be arranged through the Academic Standards and Practices Committee. An exception form may be obtained from the [Registrar](#).

Multiple Exams

Students having three or more final exams on the same day may make arrangements with the instructor and the Vice President for Academic Administration two weeks in advance to reschedule one exam at another time during exam week. Forms may be obtained in the Vice President for Academic Administration's Office.

Proficiency Exams

The University recognizes certain examinations as a demonstration of proficiency for challenging, validating, or waiving classes. An enrolled student wishing to take an examination must apply. Application forms for challenge, validation, and waiver examinations are available on the [Records website](#). Fees for these examinations are listed under Other Expenses in the Finances section of the Bulletin. Proficiency examinations, if completed successfully, will result in credit recorded on the academic transcript.

General Examination Guidelines

1. A student must have approval for an examination on file with the Registrar before an examination may be recorded on the transcript or degree audit.
2. Credit for a challenge examination may be earned only if a student has not already earned credit in a similar course, taken advanced courses in the area, or withdrawn from the course.
3. Examinations may not be retaken.
4. Examinations may not be used to repeat a course which has been audited or taken for credit.
5. Grades are recorded for University-prepared challenge examinations and scaled scores are recorded for AP and CLEP examinations.
6. CLEP examinations, with the exception of foreign languages, must be taken during the first year of residency.
7. All proficiency examinations must be completed prior to the final two semesters of residence.

Advanced Placement Exam

The University will grant credit for successful completion of Advanced Placement courses and examinations taken during high school on the following basis:

1. The passing level for all examinations is a score of 3, 4, or 5.
2. The transcript will indicate that AP credits have been completed by examination. Students must have official scores sent directly to the Registrar for evaluation.

- Maximum of 6 hours of AP history and government credit will be applied toward a history or social science major or minor.

AP examinations are taken by students in high school and credits are evaluated and transferred as part of the admissions process. These credits are recorded on the transcript and are available to the student and academic advisor through the web portal. There is no fee for recording these credits. A detailed list of the AP examinations, the required scaled score, and the credit award is available on the University's website and from the Registrar.

CLEP

College Level Examination Program or CLEP examinations are available through the University Counseling and Testing Center. Students must have official scores sent directly to the Registrar for evaluation. A detailed list of the CLEP examinations, the required scaled score, and the credit awarded is available on the University's website and from the Registrar. There is a CLEP examination fee and a recording fee.

Challenge Exam

The faculty of the University may upon request agree to prepare a challenge examination. Although not all classes can be challenged, a currently enrolled student may submit a request for the preparation of a challenge exam. Forms for this purpose are available from the Registrar. There is an examination preparation fee and a recording fee.

Validation Examinations

Students who have transcripts from non-accredited colleges, transcripts showing nontransferable college courses, or transcripts from an international college or university may be required to take validation exams. Upon successful completion of the examination, the credit will be transferred and recorded on the student's permanent record. The Registrar will assist the student to have an examination prepared and administered. There is an examination preparation fee but no recording fee.

Waiver Examinations

A student may meet an academic requirement such as general education or a course prerequisite by passing a waiver examination. Successful completion of the examination waives

the curricular requirement but does not result in credit earned. Thus, it does not reduce the total number of semester credit hours required for a degree, but it will increase the available number of elective hours. The results of a waiver exam are recorded on the student's degree audit but not on the permanent record or transcript. Students must be currently enrolled to be eligible to submit a request for the preparation of a waiver examination.

Forms for this purpose are available from the Registrar. There is an examination preparation fee but no recording fee.

Transfer Credit

Generally, college-level courses will transfer if completed with a C- grade or higher through a regionally accredited college. Because of differences in degree requirements and course content, all credits may not apply toward specific graduation requirements. Vocational credits may be accepted for transfer in areas of study offered by the University. Developmental courses, including most English as a Second Language courses, will not be accepted for transfer credit. Although permission to register for off campus classes while enrolled at the University is not required, the registrar will, upon request, verify the transferability of a course offered at another institution. The residency requirement for all baccalaureate degrees is that the last 36 credit hours earned prior to graduation must include 30 credit hours in residence. This requirement limits transfer credit to 6 semester hours during this time period. The residency requirement for all associate degrees is that the last 15 credit hours earned prior to graduation must include 12 credit hours in residence. This requirement limits transfer credit to 3 semester hours during this time period.

Courses from a previously earned bachelor's degree will be evaluated on an individual basis to determine applicability to degree requirements. A student with a bachelor's degree from a United States, regionally accredited, post-secondary institution will be considered to have fulfilled the general education requirements with the exception of religion courses. This is also the case if a student has an associate of science degree which includes the baccalaureate general education core for a particular state higher education program.

Credit may be accepted from certain unaccredited post-secondary institutions. Students requesting transfer credit from an unaccredited school must have successfully completed a minimum of 12 semester hours with a grade point average of at least 2.00 in residence at Southwestern Adventist University. Validating examinations may be required for such transfer credits at the discretion of the Registrar.

Credit for Military Service Schools

The University follows, with limitations, the recommendations of the American Council of Education as published in the Guide to the Evaluation of Educational Experiences in the Armed Forces in granting credit for military service schools. At a minimum, the following limitation applies.

Courses must be in the baccalaureate/associate degree category as defined by the ACE Guide. This precludes acceptance of vocational, technical or certificate category courses, or military occupational specialties or job experience.

For consideration of credit from military service schools, the applicant may submit the following military records:

1. A certified original of the DD Form 295, or
2. A copy of the DD Form 214, or
3. Course completion certificates.

The Assistant Director of Records will assist persons eligible for veterans educational assistance benefits.

Quality Enhancement Plan (QEP)

Southwestern Adventist University's Quality Enhancement Plan, "Whole-Person Wellness," is designed to strengthen student commitment to a healthy lifestyle by impacting knowledge, attitude and practice, which are transformative steps of change.

QEP Outcomes

1. Students will be able to demonstrate an understanding of whole-person wellness principles as exemplified in the CREATION Health model.
2. Students will be able to apply the principles of whole-person wellness to their daily lives.

QEP Curriculum Four-Year Matrix

Freshman

- UNIV 111 Wellness for Life (2 credits)

Sophomore

- One KINA activity course (1 credit, General Education)

Junior/Senior

- One KINA activity course (1 credit, General Education)

Assessment

Students will complete both quantitative and qualitative assessments throughout the QEP curriculum

Summer Bridge

Students who wish to enroll at Southwestern, but fail to meet one of the two minimum admission requirements (GPA or SAT/ACT) must participate in Summer Bridge. Learning takes place in a three-week session prior to the beginning of the freshman year and provides developmental learning support in the areas of math, reading, and writing. At the end of the session, student progress will be assessed and students will receive new course placements for Fall Semester. Students attending Summer Bridge receive one credit hour that will apply toward the requirements for a degree.

The [Center for Academic Success and Advising \(CASA\)](#) supports the work of the faculty academic advisors with Summer Bridge students. Students in this program may

have reduced course loads, restrictions on extra-curricular activities, and required dormitory residency. CASA schedules regular academic counseling sessions for each student in the program to make sure that she/he is benefiting from mathematics tutoring, the Write Spot writing center, career counseling, and other programs provided by the University to enhance academic success.

Adventist Colleges Abroad

Through [Adventist Colleges Abroad \(ACA\)](#), qualifying Southwestern students may elect to take a year out of their curriculum to become immersed in a foreign culture and learn a foreign language. Applicants for this program need not be language majors. A current list of ACA summer and full-year programs and admission requirements can be found at [ACA's website](#).

Student Missions Program

Following the call of Matthew 28 to go into all the world, the [Student Missions Program](#) is a chance for students to experience being a student missionary or Taskforce worker for 9-12 months.

The benefits of going as a student missionary or Taskforce worker include improving your Christian walk, travel, learning about a new culture and language, new friends, scholarships, and strengthening personal resumes. Check out www.hesaidgo.com for more information.

Academic Integrity

Southwestern Adventist University was founded by the Seventh-day Adventist Church in order to educate its students academically and spiritually for Christian service. The ethical training of students is as important as their academic competence. Academic integrity rests on honesty, the first principle of the Christian life. Students must be honest in their dealings inside and outside the classroom.

Students must maintain a high ethical standard in their academic work. When a student turns in work for credit in the classroom, that work must be the student's own. Students have access to some forms of authorized assistance. Authorized assistance may come in the form of tutoring by official university tutors, help from the professor, or the legitimate use of outside sources which are cited according to standard form. Other forms of outside assistance are unauthorized, for example, having another person complete all or part of an assignment, taking material from the Internet or other sources without citing it, or bringing unauthorized materials into an examination. Unauthorized help, in these and other forms, constitutes academic dishonesty.

General Responsibilities of Students

1. Students must produce their work independently, except when the professor has assigned the work as a group project.

2. Students must not represent work as their own which is not their own.
3. Students must not aid others in academic dishonesty.

Examples of Violations

What follows are examples of academic dishonesty which will jeopardize a student's standing in the classroom and at the University. This is a representative list only, not an exhaustive one.

1. **Misusing Sources of Information (Plagiarism).** When using outside sources in a paper, students must cite the source plainly in the text of the paper and on a references page, using the style which their professor requests. Failure to cite sources properly may result in failure on the paper or in the class. Students must cite the source when quoting, when paraphrasing, or even when using an idea which is unique to that source. If a student fails to do so, he or she may be subject to failure in the class. Fabricating a quotation, a paraphrase, or any part of a bibliographic reference also constitutes academic dishonesty. Students may not turn in written work as their own which was produced wholly or partly by others. If a student will receive credit for the work, the student must have, in fact, done the work. Students may not turn in material taken from the Internet as their own work, whether the material was taken from a free website or a pay service. Repeated acts of plagiarism may result in expulsion from the University.
2. **Multiple Submissions.** Students may not submit papers or assignments for credit that have already been submitted or are in the process of being submitted for another course.
3. **Misrepresenting One's Work.** Work that is assigned to the student must be done by the student. Homework assignments in any subject area must be the work of the student getting the credit and must not reflect unauthorized help from others.
4. **Using Unauthorized Materials During an Examination.** Unless the professor indicates otherwise, students should assume that the use of notes, textbooks, the Internet, databases, calculators, or any other outside sources of help during an examination, will constitute academic dishonesty.
5. **Exchanging Information During an Examination.** Students may not share information with each other in any form or by any means during an examination. Talking or signaling in any manner during an examination may result in failure on the examination. Obtaining information from another student's paper by any means during an examination is a violation of academic integrity.
6. **Tampering with Computers.** Students may not access faculty computers by any means in order to obtain advance copies of tests or quizzes, alter grades on an online grade book, or for any other purpose.

7. **Forging a Signature.** Students may not sign anyone's name but their own on any advisement form, registration form, exceptions form, or any other document for any purpose whatsoever.
8. **Aiding Others in Academic Dishonesty.** Students who enable others to misrepresent their work are also guilty of academic dishonesty and may be penalized as if they had misrepresented their own work. No student may do the class work for which another student will get credit, except in those cases when the professor has assigned work to be done in a group.

Procedure to be Followed in Cases of Academic Dishonesty

Professors have discretion in the classroom when academic integrity has been violated. The class syllabus should contain a statement on how violations of academic integrity will be treated. A first case of academic dishonesty may be handled by the professor, but will be reported to the Vice-President for Academic Administration using the University's "Academic Integrity" form. A second offense may be handled by the Vice-President for Academic Administration in conjunction with the professor. Students may appeal a decision made by either the professor or the Vice-President for Academic Administration by following the student academic appeals process as outlined in this bulletin under "Student Rights' and Appeals Policies."

Student Rights & Appeals Policies

Student Academic Appeals Process

A student who feels that he or she has been treated unfairly or unjustly by a faculty member of the university with regard to an academic process has the right to appeal according to approved procedure. Specific grounds for an appeal include one or more of the following occurrences:

- (1) that a computational/recording, or other technical error has been made but has not been acknowledged by the instructor;
- (2) that the grade has been assigned in an arbitrary, capricious, or vindictive manner, or in a manner intended to inappropriately manipulate or control the student;
- (3) that the assigned grade does not reflect the grading criteria in the course syllabus; or
- (4) that published department policies have not been followed.

Matters not Grievable

University policies, regulations or procedures adopted by the University and/or the Board of Trustees are not subject

to the grievance process. Students may request discussion and recommend changes to such policies, but this dialogue is advisory and not grievable.

Initial Appeals Procedure

1. To initiate the appeals procedure, the student must talk with the course instructor for explanation/review of the decision within three (3) University days of the occurrence. (University days are defined as time during the fall, spring or summer semester that the academic program is in session from registration through final exams).
2. If the problem is not resolved within two (2) University days of talking with the course instructor, the student must obtain an Academic Appeals Review Form from the course instructor's department chair. Within two (2) University days, the student must submit the form with a written summary and talk to the instructor's department chair. The chair has two (2) University days to respond to the student. This completes STEP I on the Academic Appeals Review Form.
3. If the problem is not resolved, the student has two (2) University days from receipt of the chair's decision to contact the Vice President for Academic Administration, providing the written summary of the complaint and the academic appeals review form. Within two (2) University days the Vice President for Academic Administration will provide a written decision. This completes STEP II on the Academic Appeals Review Form.

Formal Appeals Procedure

If the problem is not resolved with the decision of the Vice President for Academic Administration, the student may file a formal grievance. A formal grievance is a serious matter and should be done with careful consideration.

Within two (2) days of the Vice President for Academic Administration's decision, the student must request in writing to the Vice President for Academic Administration a formal hearing before the Grievance Committee, an ad hoc subcommittee of the Academic Policies Committee. The Grievance Committee will meet within three (3) days of the request to hear the student's case and will issue a decision which will constitute final action by the University. This completes STEP III on the Appeals Review Form.

Withdrawal of Grievance

At any time during the grievance procedure, the student may withdraw the complaint. Additionally, missing a deadline or failure by the student to appear for any scheduled hearing without prior notification or evidence of extenuating circumstances, shall constitute final action by the University.

Student Records - Student Rights (FERPA)

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. They have:

1. The right to inspect and review their education records within 45 days of the day the University receives a request for access. Students should submit to the registrar, head of the academic department, or other appropriate official, written requests that identify the record(s) they wish to inspect. The University official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the University official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.
2. The right to request the amendment of the student's education records that the student believes are inaccurate or misleading. If the University decides not to amend the records as requested by the student, the University will notify the student of the decision and advise the student of his/her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.
3. The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent. One exception which permits disclosure without consent is disclosure to school officials with legitimate education interests. A school official is a person employed by the University in an administrative, supervisory, academic research, or support staff position (including law enforcement unit personnel and health service staff); a person or company with whom the University has contracted (such as an attorney, auditor, or collection agent); or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his/her professional responsibility. FERPA permits the University to disclose any and all education records, including disciplinary records, to another institution at which a student seeks or intends to enroll.
4. The right to file a complaint with the U. S. Department of Education concerning the alleged failures by Southwestern Adventist University to comply with the requirements of FERPA. The name and address of the office that administers FERPA is: Family Policy Compliance Office U.S. Department of Education 400 Maryland Avenue, SW Washington, DC 20202-4605 The University may, at its discretion, publish or release the following information without prior

consent unless the student requests in writing that certain information be withheld: Student name, address, telephone listing, enrollment status, class, major field of study, most recent previous school attended, photographs, date and place of birth, participation in officially recognized activities, e-mail address, dates of enrollment, anticipated date of graduation, degrees, awards and honors. The Registrar is responsible for compliance with the provision of this Act. Questions concerning the Family Education Rights and Privacy Act may be referred to the Records Office.

Student Records - Southwestern Adventist University Rights (FERPA)

The Family Educational Rights and Privacy Act (FERPA) provides ways in which the University may share information with parents without the student's consent. For example:

1. The University will disclose education records to parents, upon request, if the student is a dependent for income tax purposes.
2. The University will disclose education records to parents if a health or safety emergency involves their son or daughter.
3. The University will inform parents if the student who is under age 21 has violated any law or its policy concerning the use or possession of alcohol or a controlled substance.
4. A University official will generally share with a parent information that is based on that official's personal knowledge or observation of the student.

The University will disclose to an alleged victim of any crime of violence or non-forcible sex offense the final results of a disciplinary proceeding conducted by the University against the alleged perpetrator of that crime, regardless of whether the institution concluded a violation was committed. The University may disclose to anyone -not just the victim -the final results of a disciplinary proceeding, if it determines that the student is an alleged perpetrator of a crime of violence or non-forcible sex offense, and with respect to the allegation made against him or her, the student has committed a violation of the University's rules or policies.

Course Numbering System

All courses are prefixed with the subject, such as ENGL, MATH, CHEM, etc. This abbreviation is followed by a three position number. Course numbers are intended to guide students and advisors in appropriate course selection.

Code Description

000-099 Developmental classes. Do not meet graduation requirement and cannot be

transferred.

100-199 Courses primarily for first-year students and General Education.

200-299 Courses primarily for sophomores and juniors.

300-499 Courses primarily for juniors and seniors.

500+ Graduate level courses.

Courses separated by a comma mean that course content is covered sequentially and that normally the courses are taken in sequence, but that they can be taken out of sequence.

Explanation of Abbreviations

1. Lec - the number of 50-minute lecture periods per week.
2. Lab - the number of clock hours in laboratory per week.
3. u.d. - upper division. i.e., courses numbered in the 300 and 400 range.

Semester Course

Following the course description will be the term indicating which semester course is generally taught.

1. (Fall) - taught every fall semester
2. (Spring) - taught every spring semester
3. (Fall, odd years) - taught fall 2019, 2021, etc.
4. (Fall, even years) - taught fall 2020, 2022, etc.
5. (Spring, odd years) - taught spring 2019, 2021, etc.
6. (Spring, even years) - taught spring 2020, 2022, etc.
7. (Fall, Spring) - taught every semester
8. (Summer) (Offered periodically)

Programs

Bachelor of Arts (BA)

- Biology
- Chemistry
- Communication - emphasis in Advertising and PR, Journalism, Radio-TV-Film
- English
- English - emphasis in writing
- History
- History, International Relations, and Public Policy
- History - Secondary Certification
- Interdisciplinary Studies
- Life Science - Secondary Certification
- Mathematics
- Music
- Religion

- Theology

Bachelor of Applied Arts and Sciences (BAAS)

Bachelor of Business Administration (BBA)

- Accounting
- Finance
- International Business
- Marketing
- Operations Management
- Dual Concentration

Bachelor of Music Education (BME)

Bachelor of Music (BMus)

Bachelor of Science (BS)

- Biochemistry
- Biology - emphasis in Biomedical, Ecology and Conservation Biology
- Business
- Chemistry
- Communication - emphasis in Advertising and PR, Journalism, Radio-TV-Film
- Computer Science
- Elementary Education
- Exercise Science
- General Studies
- Health and Fitness
- Interdisciplinary Studies
- Life Science - Secondary Certification
- Mathematics
- Mathematics - Secondary Teaching Area
- Medical Laboratory Science
- Nursing
- Physical Science
- Physical Education
- Psychology - concentrations in General Psychology, Case Management, Marriage and Family
- Psychology - emphasis in School Guidance
- Sports and Fitness Management
- Social Science
- Social Studies - Secondary Certification

Associate of Applied Science (AAS)

- Fire Science

Associate in Science (AS)

- Health and Fitness
- Computer Science

Associate of Science (AS)

- General Studies

Minors are available in the following areas:

- Accounting
- Advertising and PR
- Biblical Languages
- Biology
- Business
- Chemistry
- Coaching
- Computer Science
- Communication
- English
- Finance
- Health and Fitness
- International Business
- Journalism
- Marketing
- Mathematics
- Music
- Physical Education
- Political Science
- Psychology
- Radio-TV-Film Academics
- Religion
- Social Science
- Spanish
- Speech

Certificate Programs

- Senior Living Management
- Church Ministry
- Soul-winning Outreach Discipleship (SWORD)

Core Curriculum & Graduation

Rationale

At Southwestern Adventist University, a Seventh-day Adventist liberal arts education emphasizes preparing students with a broad academic background that enables them to contribute to society in multi-faceted ways. Flexibility, adaptability, intellectual curiosity, and commitment to lifelong learning go beyond the confines of a specific discipline. We believe that broad skills and connections across disciplines, including an emphasis on the distinctive beliefs and history of the Seventh-day Adventist church, foster the development of the whole person who will be a responsible citizen of this world and the world to come.

Educating the Whole Person

1. Spiritual and Physical Well-being - An education focused on the whole person requires a preparation of the mental and physical body for learning. General Education in this area should focus on the theological and historical foundations of our faith with an emphasis on the SDA health message.
2. Intellectual Curiosity and Inquiry - Learning utilizes discovery, synthesis, analysis, and problem solving, skills which must be intentionally embedded across the curriculum in ways that inspire lifelong learning and enable students to apply them to a variety of situations and environments.
3. Clear and Effective Communication - The ability to communicate thoughts and ideas in a clear and effective manner facilitates the participation of an educated person in society. This concept extends beyond traditional oral and written forms to encompass current modes of expression and their personal, moral and social implications.

Core Curriculum for a Bachelor's Degree

I. English Composition

Courses in English composition will emphasize the practice of critical reading and effective writing.

Select two courses: 6 credit hours

- ENGL 121 Freshman Composition
- ENGL 220 Research Writing

II. Mathematics

Courses in mathematics will emphasize quantitative and deductive reasoning, problem solving and logical thinking, organizational and systematic thinking, and the application of mathematics to various life situations.

Select one course: 3 credit hours

- MATH 110 College Algebra
- MATH 121 Precalculus
- MATH 131 Applied Mathematics
- MATH 141 Intro to Probability & Statistics
- MATH 181 Calculus I

III. Whole-Person Wellness

Courses in fitness activity will emphasize practical knowledge and practices that will promote life-long whole-person wellness.

Select two courses: 2 credit hours

- KINA xxx
- KINA xxx

IV. Humanities

Courses in the humanities will emphasize a reflection on the human experience and human condition through literary texts and artistic forms.

A. Literature Select one course: 3 credit hours

- ENGL 221, 222 World Masterpieces
- ENGL 224 Survey of English Literature
- ENGL 231, 232 American Literature I, II
- ENGL 322 Literary Perspectives

B. Fine Arts Select one course: 3 credit hours

- ARTS 222 Art Appreciation
- ENGL 272 Introduction to Drama
- HIST 221/ARTS 221 History of Western Art
- MUHL 221 Survey of Music

V. Life and Physical Science

Courses in science will emphasize understanding and application of everyday phenomena. Laboratories will be discovery based and emphasize the development and testing of hypotheses, or they may expose students to observational experiences that enhance scientific understanding.

A. Life Science Select one course: 4 credit hours

- BIOL 101 or 102 Anatomy and Physiology I or II
- BIOL 103 Human Biology
- BIOL 111 or 112 General Biology I or II
- BIOL 220 Microbiology and Immunology
- BIOL 225 Field Biology
- BIOL 345 Environment & Mankind

B. Physical Science Select one course: 4 credit hours

- CHEM 105 Survey of Chemistry
- CHEM 111 General Chemistry I
- GEOL 240 The Dinosaurs
- PHYS 101 Introductory Physics
- PHYS 114 Physical Science
- PHYS 121 General Physics I

VI. History and Social Science

Courses in history and social science are designed to give students a broad understanding of the sweep of world historical, governmental, and cultural events. Through reading, lectures, discussions, and writing, these courses will enhance the critical abilities of students by providing tools and practices that are universal in application. Ultimately, students should be better able to understand contemporary events by grasping how historical, political, and cultural events have combined to create the world in which they live.

A. History

Select two courses: 6 credit hours

- HIST 111 American History, 1492-1865
- HIST 112 American History, 1866 to Present
- HIST 225 World Civilizations I
- HIST 226 World Civilizations II

B. Social Science

Select one course: 3 credit hours

- ECON 211 Macroeconomics
- ECON 212 Microeconomics
- HIST 242 Historical and Political Geography
- POLS 211 National and Texas Constitutions
- PSYC 212 General Psychology
- PSYC 220 Human Growth & Development
- SOCI 111 Introduction to Sociology

VII. Religion

Courses in biblical studies will introduce the student to practical methods of Bible study, critical evaluation of scholarship and interpretation, and the richness and depth of the biblical text. Courses in theology will engage the student in a systematic approach to biblical matters, will have students explore different perspectives and relevant issues, and guide students to formulate personal viewpoints and positions. Courses in historical studies trace the origin and development of the Bible, Christianity, Seventh-day Adventism, and other religions.

Select four courses: 12 credit hours

A maximum of 2 courses can be taken in any one area. One course must be numbered 300 and above. Transfer

students from a non-SDA college must complete one course for each academic year in attendance, with a minimum of 2 courses (one in Biblical Studies).

A. Biblical Studies

- RELB 211 Life and Teachings of Jesus
- RELB 313 Prophetic Studies
- RELB 315 or 316 Old Testament I or II
- RELB 339 New Testament I: Gospels
- RELB 340 New Testament II: Letters

B. Theological Studies

- RELT 101 Christian Beliefs
- RELT 212 Christian Ethics
- RELT 360 Philosophy & the Christian Worldview
- RELT 419 Philosophy of Science

C. Historical Studies

- RELH 230 History of the SDA Church
- RELH 233 Biblical Archaeology
- RELH 314 History of the Bible
- RELH 320 Ellen White Writings
- RELH 331 or 332 History of Christianity I or II

VIII. Competence in Computer Applications

Students completing a degree must be proficient in the use of general computer applications and important software in the field of the student's major. Proficiency will be determined by the completion of a department-designated course or courses.

*The Bulletin description of approved courses includes the statement **"This course fulfills the Computer Competency requirement as specified in the Core Curriculum."** Unless specified in the major, the following courses meet the proficiency requirement:*

- CSIS 102 Computer Literacy and Applications
- CSIS 104 Spreadsheet and Database Applications
- CSIS 106 Comprehensive Spreadsheets

IX. Competence in Communication

Students completing a degree must be proficient in the application of the principles of effective oral communication including discussion techniques and public presentations. Proficiency will be determined by the completion of a department designated course or courses.

*The Bulletin description of approved courses includes the statement **"This course fulfills the Communication Competency requirement as specified in the Core Curriculum."** Unless specified in the major, the following courses meet the proficiency requirement:*

- COMM 111 Speech
- COMM 113 Oral Interpretation
- COMM 115 Discussion Techniques

Total GE Credit Hours: 46

B.A. Foreign Language Requirement

Complete either 6 semester credit hours of one foreign language at the intermediate level or 8 semester credit hours each of two foreign languages at the elementary level.

Baccalaureate Degree Requirements

The University awards six types of baccalaureate degrees: the Bachelor of Arts, the Bachelor of Science, the Bachelor of Music, Bachelor of Music Education, Bachelor of Business Administration and the Bachelor of Applied Arts and Sciences. Candidates who have completed the following requirements will be awarded degrees upon recommendation by the faculty and approval by the Board of Trustees.

All baccalaureate graduates will

- Complete a minimum of 120 semester credit hours, including 36 credit hours in courses numbered 300 and above and earn a minimum cumulative grade point average of 2.00.
- Complete the general education requirements.
- Complete QEP requirement UNIV 111 Wellness for Life.
- Complete a minimum of 30 semester credit hours in residence. The last 36 credit hours earned prior to graduation must include 30 credit hours in residence.
- Complete the requirements for a major field of specialization with a minimum cumulative grade point average of 2.25, unless otherwise specified by major department. No class with a grade below a C- may apply toward the major or area of emphasis. Classes listed as cognates are included in the major. A minimum of 12 hours in the major field must be taken in residence.
- Take a comprehensive examination in the field of study as designated by the major.

Bachelor of Arts graduates will also

- Complete a minor field of specialization. No class with a grade below a C- may apply toward the minor, and a minimum of 6 hours in the minor field must be taken in residence.

Graduates with Nursing and Elementary Education majors have modified degree requirements and these are specified under the respective department sections in this Bulletin.

Double majors must be completed within a single degree such as a Bachelor of Arts or a Bachelor of Science. To receive a degree with a double major, a student must complete all of the requirements, including cognates, of each major or area of emphasis. A second major will satisfy the requirement for a minor for the Bachelor of Arts degree. A student cannot earn two majors or areas of emphasis in communication.

Two baccalaureate degrees such as a Bachelor of Arts and a Bachelor of Science with majors in different disciplines may be awarded concurrently or sequentially. The candidate must meet all the degree requirements for each major including cognates, general education, the foreign language requirement, the requirement of a minor, a total of 150 semester credit hours, and 30 credit hours in residence.

Core Curriculum for an Associate in Science Degree

I. English Composition

Courses in English composition will emphasize the practice of critical reading and effective writing.

Select two courses: 6 credit hours

- ENGL 121 Freshman Composition
- ENGL 220 Research Writing

II. Mathematics

Courses in mathematics will emphasize quantitative and deductive reasoning, problem solving and logical thinking, organizational and systematic thinking, and the application of mathematics to various life situations.

Select one course: 3 credit hours

- MATH 110 College Algebra
- MATH 121 Precalculus
- MATH 131 Applied Mathematics
- MATH 141 Intro to Probability & Statistics
- MATH 181 Calculus I

III. Whole-Person Wellness

Courses in fitness activity will emphasize practical knowledge and practices that will promote life-long whole-person wellness.

Select one course: 1 credit hour

- KINA xxx

IV. Humanities

Courses in the humanities will emphasize a reflection on the human experience and human condition through literary texts and artistic forms.

Select one course: 3 credit hours

- ARTS 222 Art Appreciation
- ENGL 221, 222 World Masterpieces
- ENGL 224 Survey of English Literature
- ENGL 231, 232 American Literature I, II
- ENGL 272 Introduction to Drama
- MUHL 221 Survey of Music

V. Life and Physical Science

Courses in science will emphasize understanding and application of everyday phenomena. Laboratories will be discovery based and emphasize the development and testing of hypotheses, or they may expose students to observational experiences that enhance scientific understanding.

Select one course:

- BIOL 101 or 102 Anatomy and Physiology I or II
- BIOL 103 Human Biology
- BIOL 111 or 112 General Biology I or II
- BIOL 220 Microbiology and Immunology
- BIOL 225 Field Biology
- CHEM 105 Survey of Chemistry
- CHEM 111 General Chemistry I
- GEOL 240 The Dinosaurs
- PHYS 101 Introductory Physics
- PHYS 114 Physical Science
- PHYS 121 General Physics I

VI. History and Social Science

Courses in history and social science are designed to give students a broad understanding of the sweep of world historical, governmental, and cultural events. Through reading, lectures, discussions, and writing, these courses will enhance the critical abilities of students by providing tools and practice that are universal in application. Ultimately, students should be better able to understand contemporary events by grasping how historical, political, and cultural events have combined to create the world in which they live.

Select one course: 3 credit hours

- HIST 111 American History, 1492-1865
- HIST 112 American History, 1866 to Present
- HIST 225 World Civilizations I
- HIST 226 World Civilizations II
- HIST 242 History and Political Geography
- ECON 211 Macroeconomics
- ECON 212 Microeconomics
- POLS 211 National and Texas Constitutions

- PSYC 212 General Psychology
- PSYC 220 Human Growth and Development
- SOCI 111 Introduction to Sociology

VII. Religion

Courses in biblical studies will introduce the student to practical methods of Bible study, critical evaluation of scholarship and interpretation, and the richness and depth of the biblical text. Courses in theology will engage the student in a systematic approach to biblical matters, will have students explore different perspectives and relevant issues, and guide students to formulate personal viewpoints and positions. Courses in historical studies trace the origin and development of the Bible, Christianity, Seventh-day Adventism, and other religions.

Select two courses: 6 credit hours

A. Biblical Studies

- RELB 211 Life and Teachings of Jesus

B. Theological Studies

- RELT 101 Christian Beliefs
- RELT 212 Christian Ethics

C. Historical Studies

- RELH 230 History of the SDA Church
- RELH 233 Biblical Archaeology

Total GE Credit Hours: 26

Associate Degree Requirements

The University awards three types of associate degrees: the Associate in Science, the Associate of Science, and the Associate of Applied Science. Candidates who have completed the following

requirements will be awarded degrees upon recommendation by the faculty and approval by the Board of Trustees.

Associate of Science graduates will

1. Complete a minimum of 60 semester credit hours and earn a minimum cumulative grade point average of 2.00
2. Complete a minimum of 24 semester credit hours in residence. Twelve of the final 15 hours before graduation must be taken in residence at Southwestern
3. Complete QEP requirement UNIV 111 Wellness for Life

Associate in Science graduates will

1. Complete a minimum of 60 semester credit hours and earn a minimum cumulative grade point average of 2.00
2. Complete a minimum of 24 semester credit hours in residence. Twelve of the final 15 hours before graduation, must be taken in residence at Southwestern
3. Complete a major field of specialization with a minimum cumulative grade point average of 2.00 in the major. No class with a grade below C- may apply toward the major
4. Complete the general education requirements for the Associate in Science degree
5. Complete QEP requirement UNIV 111 Wellness for Life

Core Curriculum for an Associate of Applied Science Degree

Associate of Applied Science graduates will complete the requirements as specified in the Fire Science section of this *Bulletin*.

Graduation Procedures for All Degrees

A graduating student will fulfill all degree requirements published in the *Bulletin*. The student may complete the degree requirements published in the *Bulletin* at the time of admission or any *Bulletin* issued during continuous enrollment. All general requirements for graduation must be fulfilled as published in the current *Bulletin*.

A **Graduation Contract** must be completed and returned to the Registrar no later than one week after the start of the second semester of the student's junior year.

Any work taken at another institution must be recorded on the transcript before the degree is awarded.

The student must satisfactorily meet all financial obligations to the University, including payment of graduation dues, in order to obtain a diploma or transcript showing graduation. Graduation class dues are a mandatory non-refundable fee that covers expenses such as class gift, 25 graduation announcements and miscellaneous class activities. This fee applies to campus as well as Adult Degree Program students. When a student returns to obtain an additional degree and graduation dues were paid as an initial Southwestern graduate, only half of the dues will be

required for each subsequent graduation class. Graduation dues are charged to the student account at the beginning of the semester in which the student will graduate.

All graduates are expected to participate in the commencement exercises unless given permission by the Vice President for Academic Administration to graduate in absentia.

Candidates will receive instructions on ordering graduation regalia and announcements at the senior class meeting.

Graduation Ceremonies

The **commencement ceremony** is held at the end of the spring semester each year. Students eligible to participate in graduation must complete all arrangements with the Registrar by March 15 to be included in the ceremony and ensure name is printed on Graduation Program.

Deferred Graduation

Students who have fewer than 6 hours or two courses remaining in their degree program, as documented on their graduation contract, may participate in graduation exercises. The student will be listed as a candidate for graduation in the graduation program. All SWAU residency requirements apply to deferred graduation. All degree requirements must be completed within six (6) years of the date of the catalog selected.

Graduation Honors

Honors status will be calculated for bachelor's degree graduates after the final semester grades are issued. The following designations are given to graduates who have maintained high GPAs.

1. GPA of 3.50 to 3.74 may graduate cum laude
2. GPA of 3.75 to 3.89 may graduate magna cum laude
3. GPA of 3.90 to 4.00 may graduate summa cum laude

The associate degree candidate who has maintained a cumulative GPA of at least 3.60 may graduate with distinction.

Honors Program Graduate

Honors Program students may graduate with the designation of Honors Program Graduate by meeting the requirements outlined under the Honors Program in this *Bulletin*.

University Experience

Chan Shun Centennial Library

Main Collections

The library at Southwestern contains approximately 140,000 print and electronic book volumes and 56,000 journal titles available in print and online. The library's main web page at library.swau.edu is the starting point for most research at Southwestern. Patrons search these collections using the library's online catalogue, individual journal databases, or the combined discovery service, which includes most of these materials. The list of full-text journals provides serious researchers with access to specific journal issues. Additional collections of audiovisual material, microforms, maps, artwork, and archival resources expand the library's main holdings.

Specialized Collections

Southwestern's library encompasses three specialized collections that support academic programs. The Adventist Heritage Center Collections include substantial primary source materials chronicling the establishment of the Seventh-day Adventist church and the presence of the Adventist movement in the Southwest. Items include rare books, photographs, and manuscripts, as well as reproductions of similar materials. The Ruth King McKee Curriculum Library serves Southwestern's education program by providing examples of curriculum and instruction materials used in the K12 setting. The Entrepreneurship and Small Business Resource Center is our newest special collection, established in the fall of 2010, and will bring together the best resources for entrepreneurship, small business management, and business ethics.

The Global Library

Negotiated agreements, consortial memberships, and evaluated websites link Southwestern's scholars to thousands of academic, special, and public libraries within the United States and beyond. Students, faculty, and staff who need resources outside Southwestern's holdings may procure them through the library's document delivery / interlibrary loan service. On-demand delivery of research materials is made possible through TexShare, and can be initiated through completing the request form found on the library's webpage. Also, current students and faculty are invited to request a TexShare borrowers' card at the library's front desk, which grants individual borrowing privileges at most Texas university and public libraries.

Services

The library's professional staff members provide necessary resources and assist faculty and students in retrieving materials for research purposes. Instruction and individual research consultations are available by request. Online subscription databases provide access to extensive resources, which are equally available on and off campus. Students using licensed subscriptions off campus will be asked to authenticate their connection to Southwestern with their Campus Portal login.

The Write Spot

Though physically located within the library's instruction classroom, this initiative represents a campus-wide commitment to ensuring that students have support in developing strong written

Southwestern's Lecture Series

The Carol Sample Lecture Series, an endowed, annual series that honors retired English professor Dr. Carol Sample, supports guest lecturers whose work appeals primarily to writing and literature students.

The George and Dottie Saxon Lecture Series presents up to three speakers annually who address the connections between science and faith. The series, established in 2006, has brought to campus speakers such as Michael Behe, Kurt Wise, Ronald Numbers, and David Berlinski.

The Scholars Lecture Series supports all disciplines. Two presentations per semester offer insight into and commentary within many fields, often presented by individuals whose life experience has been outside the academy. Recent programs have included political analysis, psychology, music theory, history, religion, education, and international relations.

Southwestern's Dramatic Presentations

Southwestern offers a drama class every spring semester. Participants explore theoretical material on the drama in history and on drama as a genre, but also gain the practical experience of staging a full-length work by classic writers such as Shakespeare, Goldsmith, Wilde, and others. The students learn all aspects of stagecraft, ranging from acting techniques to the use of blocking, staging, props and costumes to achieve an overall effect. These performances enrich both the presenters and also the community that views them, as we together experience the best that dramatic culture has to offer about ourselves and our world.

Rough Writers

Writers meet weekly in The Write Spot to review one another's work, encourage each other in the creative process, and offer suggestions and guidance. This is a great

place to network with other faculty, staff, and students who share your love of writing. The Rough Writers present their creative work in public readings and performances.

Meadows Gallery

Meadows Gallery serves as Southwestern's focal point for displays and exhibits. Located within the campus library building, the Gallery has shown traveling exhibits as well as local talent.

The Herbert M. and Ivanette Woodall Hopps Museum and Welcome Center

Primarily a community and visitor center, this two-story facility is created by eclectic exhibits which include periodic displays of private collections as well as historic items dating from the university and town's beginnings in 1893. On-site tours, overseen by a local historian, describe the unique philosophy that gave birth to the original school and the surrounding community, and highlight the vision and contribution of many historic figures.

Southwestern's Dinosaur Science Museum

Southwestern's Paleontology Museum houses specimens from the Hanson Research Center in Wyoming, the Earth History Research Center (a collaborative endeavor among many academic institutions), and Southwestern's own index collections of fossilized vertebrates and invertebrates. Most specimens can be viewed through the online portal to the museum (<http://fossil.swau.edu>), but personal tours and research viewing can be arranged as well. Southwestern's Harold Drake Preparatory Laboratory serves as a working exhibit in which visitors are welcome to observe the cleaning and preparation of geological and paleontological specimens in person or online at <http://dinosaur.swau.edu>.

Thomsen Observatory

Southwestern's astronomy courses benefit from access to the Thomsen Observatory, which is adjacent to campus. The Observatory and related physics lab house a number of reflector and refractor telescopes that offer celestial exploration for students, faculty, and the community.

Academic Support Services

Center for Academic Success and Advising (CASA)

The Center for Academic Success and Advising (CASA) support the work of the faculty and academic advisors by coordinating academic support services for all Southwestern students that are designed to enhance student success, including tutoring, career counseling and General Studies advising. CASA also offers periodic workshops and seminars during the academic year.

Counseling and Testing Center

The Counseling and Testing Center provides services which focus on helping students cope with personal concerns as they engage in their spiritual, academic, social and personal activities. Typical student needs and concerns include learning how to study more effectively, resolving interpersonal conflicts, managing stress reactions, coping with loneliness, and handling feelings of depression, anxiety and other emotional crises.

Career Planning: Several career and interest inventories are given by the Counseling Center to help students learn more about their aptitudes, achievements, interests, values, and personality. The College-Level Examination Program (CLEP), correspondence tests, and national tests for admission to graduate schools are administered by the Counseling Center.

Special Needs: The Counseling Center strives to assist students with qualifying disabilities which can include vision and hearing, medical conditions, and learning disabilities which substantially limit one or more of a person's major life activities and may necessitate modifications to the facilities, programs, or services of the University. Information provided by the student will be used only in the coordination and facilitation of service and accommodations required to make programs accessible to the student. The University reserves the right to request current documentation of physical and/or mental disabilities prior to the determination and facilitation of appropriate accommodations; documentation requirements are discussed in more detail in the ADA Policy found in the Counseling and Testing Center.

Disability Services

Disability services staff members, through the Counseling and Testing Center, coordinate appropriate aids and services to accommodate students with disabilities. Students requesting accommodation must contact the office to provide the staff members with documentation of their disability.

Southwestern is committed to policies which provide equal opportunity for full participation in the University experience for all qualified people with disabilities. The

university prohibits discrimination on the basis of disability in admission or access to its educational programs and associated activities.

Health Services

Health Services provides assistance to students or staff who are ill or have minor injuries, without cost. The clinic is located in Harmon Hall and is open from 8:00 P.M. -10:00 P.M. Sunday

-Thursday. If you should have a health care need during weekends or nights, call the dean on duty.

Information Services/Technology

The Office of Information Technology Services is responsible for providing computer resources, campus network infrastructure, digital and voice telecommunications, standard software licensing, and institutional research to support the academic and administrative functions of the University. The staff installs and maintains servers, off-campus connectivity, administrative computer systems, as well as providing help for faculty, staff, and administrators in addressing their computer-related problems. There is a continual program to upgrade connectivity, external access, hardware and software, and digital resources for classroom use.

The Chan Shun Library, contains computers for the use of students during library hours. The Computer Teaching Lab, located in Pechero Hall, houses a number of computers that are available for general use when classes are not scheduled in that facility.

Student Services

Students with personal and campus concerns and questions should contact the Dean of Students, whose office is located in the Findley Administration Building. The Vice President for Student Services/Dean of Students' staff practices a student-centered, student-first philosophy of service. The student code of conduct, which is in place for the safety and well being of our university campus community, is enforced by the Vice President for Student Services. The Student Services staff is further involved in student life by sponsoring numerous programs and activities, planning and coordinating new student orientation, providing leadership training and opportunities for student involvement in campus governance.

The Write Spot

Support for writing and writers on campus is the focus of The Write Spot, Southwestern's writing center. This facility is located in the library, on the first floor, and offers assistance to students, faculty, and staff. Faculty and trained mentors are available for consultations 24 hours a week during the academic year.

Distance Education

Faculty/Staff

Marcel Sargeant, Director; Jeanne Mizher, Secretary

Mission Statement

Southwestern Adventist University commits to educating a diverse student body in a Christ-centered environment shaped by Seventh-day Adventist Christian beliefs for service and leadership.

Alternatives for Acquiring Credit

Distance Education students can take advantage of the following alternatives for acquiring college credit:

1. Credit for prior learning is available through the portfolio assessment program. The student may receive up to 16 credits for college level learning acquired outside the formal credit granting process. To obtain this credit, the student must register for ADPS 230 Prior Learning Assessment, a one hour course. The course guides the student through the development of a portfolio to document college level learning. The portfolio will be evaluated by faculty in the discipline for which credit is requested. A limited number of courses are available for experiential credit. The student considering this alternative should consult carefully with the Distance Education Program office for course applicability. Credit awarded through the portfolio does not apply toward the 30 hour residency requirement. In addition to the tuition for the Portfolio Development course, there is an evaluation and transcription fee for experiential credit.
2. All other forms of acquiring credit are described in the Academics section of this *Bulletin*.

Distance Education Programs

Bachelor of Arts (BA)

- History
- Religion
- Theology

Bachelor of Applied Arts and Sciences (BAAS)

Bachelor of Science (BS)

- Business
- Elementary Education
- General Studies
- Psychology - concentrations in General Psychology, Case Management, Marriage and Family
- Psychology - emphasis in School Guidance
- Social Science

Associate of Applied Science (AAS)

- Fire Science

Associate of Science (AS)

Certificate Programs

- Senior Living Management
- Church Ministry

Distance Education for On-campus Students

Distance education courses are also utilized by on-campus students. The Distance Education office provides assistance to students. The University uses Canvas as the on-line course management system. All courses require students to have access to the Internet, a SWAU email account, and the ability to play video lectures.

Art

Faculty/Staff

Devon Howard, Chair

Adjunct: Joy Chadwick, Marcela Wall

Aims of the Art Department

The aim of the art program is to cultivate an appreciation of the various forms of visual experience and to provide opportunity for self-expression. (The following classes may be taught with sufficient student demand.)

ARTS 101: Introductory Drawing

Introduction to the basic elements of drawing with emphasis on sketching techniques, media, concept formulation, design, color, and development of drawing skills. No prerequisites are required. Each student will work to their evaluated skill levels.

Credits: 1 - 3

Lab Hours: 4

Lecture Hours: 2

Program: **Art**

Semester Offered: Fall, even years

ARTS 135: Introductory Studio Ceramics

Emphasis is placed on understanding the basic ways in which clay has served human needs throughout history. The course will parallel the historical and cultural development of ceramics from its primitive beginnings to its current status. May include slides and readings to augment studio work aimed at making functional as well as conceptually-oriented objects. A special fee for art supplies is assessed.

Credits: 1 - 3

Lab Hours: 4

Lecture Hours: 2

Program: **Art**

Semester Offered: Spring

ARTS 215: Painting I

Introduction to the basic elements of painting with an emphasis on oil painting on canvas. Color, composition, media techniques, and design will be covered. No prerequisites are required. Each student will work to their evaluated skills levels.

Credits: 1

Lab Hours: 4

Lecture Hours: 2

Program: **Art**

Semester Offered: Fall, odd years

ARTS 221: History of Western Art

A survey of the fine arts and how they have related to the various cultures throughout western civilization. The class will deal with the arts from the Renaissance to the present time. (Also taught as HIST 221).

Credits: 3

Program: **Art**

Semester Offered: Spring

ARTS 222: Art Appreciation

Credits: 3

Program: **Art**

ARTS 223: Arts/Crafts/Drama

A course of exploratory activities in a variety of two- and three-dimensional arts and crafts media and methods of Discipline-Based Art Education for children.

Credits: 3

Program: **Art**

Semester Offered: Spring

ARTS 235: Intermediate Studio Ceramics

Offers additional experience in ceramics. The student will engage in a more sophisticated degree of problem-solving in the medium of clay. A special fee for art supplies is assessed.

Credits: 1 - 3

Lab Hours: 4

Lecture Hours: 2

Prerequisites: ARTS 131 or permission of instructor

Program: **Art**

Semester Offered: Fall, Spring

ARTS 298: Individual Study Topics

Designed for the student who wishes to do independent study or research. Content and methods of study must be arranged prior to registration. May be repeated for a total of 3 credits.

Credits: 1 - 3

Prerequisites: Approval by department chair

Program: **Art**

ARTS 299: Directed Group Study Topics

Provides academic departments an opportunity to offer courses in specialized or experimental areas, either lower or upper division, not listed in the undergraduate *Bulletin*. May be repeated for a total of 3 credits.

Credits: 1 - 3

Prerequisites: Approval by department chair

Program: **Art**

ARTS 315: Painting II

Additional introduction to the basic and advanced elements of painting with an emphasis on oil painting on canvas. Color, composition, media techniques, and design will be covered. Each student will work to their evaluated skill levels.

Credits: 1 - 3

Lab Hours: 4

Lecture Hours: 2

Prerequisites: ARTS 212 or permission of instructor

Program: [Art](#)

Semester Offered: Spring, Even Years

ARTS 335: Advanced Studio Ceramics

Offers the experienced student in ceramics the opportunity to explore more complex problems of expression in ceramics. A special fee for art supplies is assessed.

Credits: 1 - 3

Lab Hours: 4

Lecture Hours: 2

Prerequisites: ARTS 231 or permission of instructor

Program: [Art](#)

Semester Offered: Fall, Spring

ARTS 498: Individual Study Topics

Designed for the advanced student who wishes to do independent study or research. Content and methods of study must be arranged prior to registration. May be repeated for a total of 3 credits.

Credits: 1 - 3

Prerequisites: Approval by department chair

Program: [Art](#)

ARTS 499: Directed Group Study Topics

Provides academic departments an opportunity to offer courses in specialized or experimental areas, either lower or upper division, not listed in the undergraduate *Bulletin*. Student may be allowed to repeat the course for credit.

Credits: 1 - 3

Prerequisites: Approval by department chair

Program: [Art](#)

Biological Sciences

Faculty/Staff

Peter McHenry, Chair; Arthur Chadwick, Amy McHenry, Arthur Schwarz, Jared Wood

Aims of the Department

The mission of the Department of Biological Sciences is to encourage thoughtful investigation of living systems.

Student Learning Outcomes

Biological Sciences graduates will be able to:

- Use scientific processes (observe nature, pose problems, generate and test hypotheses, design experiments, interpret and evaluate data, and determine how to follow up on findings), especially involving quantitative reasoning and analysis.
- Communicate effectively with people both in biology as well as in other disciplines through written, visual, and oral methods.
- Evaluate the social, ethical, and moral implications of biological research and how science impacts their faith.

Programs

The department offers a Bachelor of Arts and a Bachelor of Science degree in biology. The B.A. degree requires 30 semester hours in biology, 18 hours in a minor area and includes a foreign language component. The B.S. degree allows a choice between two areas of emphasis: Biomedical emphasis or Ecology and Conservation Biology emphasis. Students may also choose to pursue a B.S. or minor in Life Science towards Secondary Certification in coordination with the Education Department.

Biological Sciences Degrees

B.A. Biology

Program: Biological Sciences

Type: B.A.

Required Courses

*Include one botany elective.

Item #	Title	Credits
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BIOL 111	General Biology I	4
BIOL 112	General Biology II	4
BIOL 180	Biology Research Seminar	1
BIOL 230	Ecology	4
BIOL 320	Genetics	4
BIOL 340	Cell and Molecular Biology I	4
BIOL 419	Philosophy of Science	3
	BIOL BA Elective (x2)	6 - 8
Sub-Total Credits		30-32

Required Cognates

Item #	Title	Credits
CHEM 111	General Chemistry I	4
CHEM 112	General Chemistry II	4
	MATH 121 or 141	3
Sub-Total Credits		11
Total credits for degree:		41-43

B.S. Biology, Biomedical Emphasis

Program: Biological Sciences

Type: B.S.

Biology, B.S. Core Curriculum

Required of all B.S. students.

Item #	Title	Credits
BIOL 111	General Biology I	4
BIOL 112	General Biology II	4
BIOL 180	Biology Research Seminar	1
BIOL 230	Ecology	4
BIOL 320	Genetics	4
BIOL 419	Philosophy of Science	3
Sub-Total Credits		20

Required Courses

Item #	Title	Credits
BIOL 340	Cell and Molecular Biology I	4
	BIOL Electives (x3)	9 - 12
Sub-Total Credits		13-16

Electives to be selected from the following courses:

In order for BIOL 480 to count as an elective, at least three credit hours of BIOL 480 must be completed and a final presentation must be given.

Item #	Title	Credits
BIOL 318	Microbiology & Immunology	4
BIOL 333	Parasitology	3
BIOL 341	Cell and Molecular Biology II	4
BIOL 410	Human Physiology	4
BIOL 443	Comparative Vertebrate Anatomy	4
BIOL 450	Histology	4
BIOL 455	Immunology	3
BIOL 480	Research in Biology	1 - 2

Required Cognates

Item #	Title	Credits
CHEM 111	General Chemistry I	4
CHEM 112	General Chemistry II	4
CHEM 231	Organic Chemistry I	4
CHEM 232	Organic Chemistry II	4
PHYS 121	General Physics I	4
PHYS 122	General Physics II	4
	MATH 121 or 141	3
Sub-Total Credits		27
Total credits for degree:		60-63

B.S. Biology, Ecology and Conservation Biology Emphasis

Program: Biological Sciences

Type: B.S.

Biology B.S. Core Curriculum

Required of all B.S. students.

Item #	Title	Credits
BIOL 111	General Biology I	4
BIOL 112	General Biology II	4
BIOL 180	Biology Research Seminar	1
BIOL 230	Ecology	4

BIOL 320	Genetics	4
BIOL 419	Philosophy of Science	3
Sub-Total Credits		20

Required Courses

In consultation with the advisor, BIOL 480 Research in Biology, may replace one of the electives. In order for BIOL 480 to count as an elective, at least three credit hours of BIOL 480 must be completed and a final presentation must be given.

Item #	Title	Credits
BIOL 328	Biostatistics	3
BIOL 345	Environment and Mankind	4
BIOL 360	Plant Biology	4
BIOL 443	Comparative Vertebrate Anatomy	4
BIOL 475	Management of Fish & Wildlife Resources	4
	BIOL - Botany Elective	4
	BIOL - Ecology Elective	4
	BIOL - Zoology Elective (x2)	7 - 8
Sub-Total Credits		34-35

Botany electives:

Item #	Title	Credits
BIOL 314	Systematic Botany	4
BIOL 465	Plant Physiology	4
Sub-Total Credits		4

Ecology electives:

Item #	Title	Credits
BIOL 325	Field Ecology	4
BIOL 335	Limnology	4
Sub-Total Credits		4

Zoology electives:

Item #	Title	Credits
BIOL 312	Ornithology	3
BIOL 435	Herpetology	4
BIOL 440	Mammalogy	4
BIOL 462	Ichthyology	4
Sub-Total Credits		7-8

Required Cognates

Item #	Title	Credits
CHEM 111	General Chemistry I	4
CHEM 112	General Chemistry II	4
	MATH 121 or 141	3
	Sub-Total Credits	11
	Total credits for degree:	80-82

B.S. Life Science Secondary Certification

You must make formal application for admittance to the Teacher Education Program. Applications are available at the Education Department Office.

Program: Biological Sciences

Type: B.S.

Life Science B.S. - Secondary Certification

Must include one botany elective and one zoology elective.

Item #	Title	Credits
BIOL 111	General Biology I	4
BIOL 112	General Biology II	4
BIOL 180	Biology Research Seminar	1
BIOL 230	Ecology	4
BIOL 320	Genetics	4
BIOL 419	Philosophy of Science	3
	BIOL - Electives (x3-4)	12
	Sub-Total Credits	32

Required Cognates

Item #	Title	Credits
CHEM 111	General Chemistry I	4
CHEM 112	General Chemistry II	4
	MATH 121 or 141	3
	Sub-Total Credits	11
	Total credits for degree:	43

Minor in Biology

Program: Biological Sciences

Type: Minor

Required Courses

Item #	Title	Credits
BIOL 111	General Biology I	4
BIOL 112	General Biology II	4
	BIOL Minor - Electives (6 hours must be upper division)	10
	Sub-Total Credits	18
	Total credits for degree:	18

Minor in Life Science - Secondary Certification

You must make formal application for admittance to the Teacher Education Program. Applications are available at the Education Department Office.

Program: Biological Sciences

Type: Minor

Minor in Life Science - Secondary Certification

Item #	Title	Credits
BIOL 111	General Biology I	4
BIOL 112	General Biology II	4
BIOL 230	Ecology	4
BIOL 320	Genetics	4
BIOL 419	Philosophy of Science	3
	Life Science Minor Electives - upper division (x2)	8
	Sub-Total Credits	27
	Total credits for degree:	27

BIOL 101: Anatomy & Physiology I

An integrated study of the anatomy and physiology of human organ systems with a focus on homeostasis and the role of cellular processes involved with maintaining that homeostasis. Topics include basic cell biology and histology, skin, bones, muscles, and the nervous system. Does not apply toward a biology major or minor.

Credits: 4

Lab Hours: 3

Lecture Hours: 3

Program: Biological Sciences

Semester Offered: Fall

BIOL 102: Anatomy & Physiology II

An integrated study of the anatomy and physiology of human organ systems with a focus on homeostasis and the role of cellular processes involved with maintaining that homeostasis. Topics include the cardiovascular, immune, respiratory, digestive, urinary, endocrine, and reproductive systems, as well as an introduction to metabolism, nutrition, chemical balance, pregnancy, development, and heredity. Does not apply toward a biology major or minor.

Credits: 4
Lab Hours: 3
Lecture Hours: 3
Program: **Biological Sciences**
Semester Offered: Spring

BIOL 103: Human Biology

This is a survey course, concerning the structure and function of the human body. Important themes in this course include understanding our bodies' systems, the impact of disease and injury, as well as disease prevention and the principles of healthful living. This course fulfills the Life Science Competency requirement as specified in the Core Curriculum. Does not apply toward a biology major or minor.

Credits: 4
Lab Hours: 3
Lecture Hours: 3
Program: **Biological Sciences**
Semester Offered: Fall

BIOL 111: General Biology I

A survey course covering the basic disciplines of life science. Topics include cell biology, metabolism, genetics, molecular biology, natural history, and microorganisms. A full sequence of high school biology and chemistry is highly recommended.

Credits: 4
Lab Hours: 3
Lecture Hours: 3
Program: **Biological Sciences**
Semester Offered: Fall

BIOL 112: General Biology II

A survey course covering the basic disciplines of life science. Topics include protists, fungi, plants, animals, and ecology. Animal physiology and behavior is emphasized. A full sequence of high school biology and chemistry is highly recommended.

Credits: 4
Lab Hours: 3
Lecture Hours: 3
Program: **Biological Sciences**
Semester Offered: Spring

BIOL 180: Biology Research Seminar

A freshman level seminar course designed to initiate students early in their careers to the concepts, principles and conduct of biological research by exposing them to active researchers in various disciplines of biology. Class activities include attendance at research presentations by staff and outside researchers, participation with questions and preparation of two page summary of each presentation. Required for all freshmen. All other biology majors will be expected to attend. Presentations by special guests.

Credits: 1
Program: **Biological Sciences**
Semester Offered: Fall

BIOL 220: Microbiology and Immunology

Introduction to the structure, function and control of microorganisms in the environment with special emphasis on those organisms of medical importance. Introduction to immune responses and mechanisms including antibody and host-antigen interactions, and humoral and cellular immunological response mechanisms. Lab fee. (Biology or MLS majors should take BIOL 318.)

Credits: 4
Lab Hours: 3
Lecture Hours: 3
Program: **Biological Sciences**
Semester Offered: Fall

BIOL 225: Field Biology

This course is a field study of the plants, animals, natural features, and climate of a particular region of North America or perhaps another continent. It includes the study of ecological relationships in the selected study area. Students will be assessed by periodic quizzes in the field. This three week intensive field course will involve camping and extensive travel to National Parks, game reserves, and natural areas. A field trip fee will be charged commensurate with the distance traveled. (Offered periodically as an intensive course spanning 3 weeks before fall term, during Christmas holiday, or 3 weeks after spring term. Offered concurrently with BIOL 325. Non-Biology majors should register for BIOL 225.)

Credits: 4
Program: **Biological Sciences**

BIOL 230: Ecology

This course will examine the principles governing relationships between organisms and the physical and chemical environment and among organisms. Important topics will include population dynamics, ecosystem processes and the distribution of the earth's biomes. The principles of ecology will be brought to bear on issues such as conservation of biodiversity and wise use of natural resources. The laboratory includes a four-day field trip. Field trip fee.

Credits: 4
Lab Hours: 3
Lecture Hours: 3
Prerequisites: **BIOL 111 BIOL 112**
Program: **Biological Sciences**
Semester Offered: Fall

BIOL 298: Individual Study Topics

A study in an area of student interest under the direction of a staff member. This study may involve data collection, or library work and will involve a written report. Content and method of study must be arranged prior to registration. May be repeated for a total of 3 credits.

Credits: 1 - 3
Prerequisites: **BIOL 111 BIOL 112** and approval of instructor
Program: **Biological Sciences**

BIOL 299: Directed Group Study Topics

Provides academic departments an opportunity to offer courses in specialized or experimental areas, either lower or upper division, not listed in the undergraduate *Bulletin*. May be repeated for a total of 3 credits.

Credits: 1 - 3
Prerequisites: Approval by department chair
Program: **Biological Sciences**

BIOL 312: Ornithology

A study of birds, with emphasis on avian identification, geographic distribution, migration, habits and conservation. Attention is given to anatomical and physiological features that contribute to their unique lifestyles. Laboratory sessions are largely in the field and include a five-day field trip. Field trip fee.

Credits: 3
Lab Hours: 3
Lecture Hours: 2
Prerequisites: **BIOL 111**
Program: **Biological Sciences**
Semester Offered: Spring even years

BIOL 314: Systematic Botany

This is a taxonomic study of the flowering plants of Texas. It includes methods for identification and preservation of plant specimens. Laboratory includes a four-day field trip. Field trip fee.

Credits: 4
Lab Hours: 3
Lecture Hours: 3
Prerequisites: **BIOL 111 BIOL 112**
Program: **Biological Sciences**
Semester Offered: Spring odd years

BIOL 315: Field Invertebrate Zoology

A taxonomic and ecological study of invertebrates from marine, freshwater, and terrestrial environments. Some attention is focused on the direct role of invertebrates on human life. Laboratory studies include field work locally and at the Texas Gulf Coast. Field trip fee covering cost of transportation, room and board, and use of a research vessel. (Offered periodically)

Credits: 4
Lab Hours: 3
Lecture Hours: 3
Prerequisites: **BIOL 111 BIOL 112**
Program: **Biological Sciences**

BIOL 318: Microbiology & Immunology

This course is an introduction to the structure, function and control of microorganisms in the environment with special emphasis on those organisms of medical importance. Included is an introduction to immune responses and mechanisms, antibody and host-antigen interactions, bursal and thymic influences on the lymphoid system, and humoral and cellular immunological response mechanisms. Offered concurrently with BIOL 220, so students of this course cannot appropriate for upper division level work. Students cannot take both courses for credit. (Class counts toward a Biology or MLS major.)

Credits: 4
Lab Hours: 3
Lecture Hours: 3
Prerequisites: **BIOL 111 BIOL 112**
Program: **Biological Sciences**
Semester Offered: Fall

BIOL 320: Genetics

The study of inheritance and the molecular mechanisms which impact it with an emphasis on problem-solving and independent laboratory work. Course requires a comprehensive written report of results from a semester-long laboratory project.

Credits: 4

Lab Hours: 3

Lecture Hours: 3

Prerequisites: [BIOL 111](#) [BIOL 112](#)

Program: [Biological Sciences](#)

Semester Offered: Spring

BIOL 325: Field Ecology

This course is a field study of the plants, animals, natural features, and climate of a particular region of North America or perhaps another continent. It includes the study of ecological relationships in the selected study area. Students will be assessed by periodic quizzes in the field and a field presentation or a summative paper after returning to campus. This three week intensive field course will involve camping and extensive travel to National Parks, game reserves, and natural areas. A field trip fee will be charged commensurate with the distance traveled. (Offered periodically as an intensive course spanning 3 weeks before fall term, Christmas holiday, or 3 weeks after spring term. Offered concurrently with BIOL 225. Biology majors or minors should register for BIOL 325.)

Credits: 4

Prerequisites: [BIOL 111](#) [BIOL 112](#)

Program: [Biological Sciences](#)

BIOL 328: Biostatistics

The student will learn basic statistical skills, such as hypothesis testing, probability, statistical inference, correlation, regression, curve fitting, and population and sample comparison techniques. The student will also learn to analyze data and generate appropriate graphs using R, SPSS, and Excel.

Credits: 3

Prerequisites: [BIOL 230](#) [MATH 141](#)

Program: [Biological Sciences](#)

Semester Offered: Spring

BIOL 330: Bacteriology and Virology

Biology of bacteria, viruses, fungi and other microorganisms, and their interactions with their environment. Includes surveys of microbial diversity and taxonomy, human-microbe relationships, environmental and industrial microbiology. Bacteria and viruses will be used in the laboratory to provide training and experimental methodology.

Credits: 4

Lab Hours: 3

Lecture Hours: 3

Prerequisites: [BIOL 111](#) [BIOL 112](#) [BIOL 320](#)

Program: [Biological Sciences](#)

Semester Offered: Periodically

BIOL 333: Parasitology

This course is a comparative survey of the primary parasites of human and veterinary importance with an emphasis on morphology, life cycles, epidemiology, pathogenesis and the interface between the parasite and the host immune system. Students will develop a global perspective of the burden of parasitic diseases and will analyze current literature in molecular parasitology topics.

Credits: 3

Prerequisites: [BIOL 111](#) [BIOL 112](#) or permission of instructor

Program: [Biological Sciences](#)

Semester Offered: Spring odd years

BIOL 335: Limnology

In this course we will examine topics dealing with the biological and ecological characteristics and economic importance of surface waters, including lakes, streams and wetlands. Specific topics will include light and heat in aquatic environments, dissolved gasses, nutrients, dynamics of phytoplankton, periphyton, and consumers and the impact of human society on natural surface waters. Laboratory includes a four-day field trip. Field trip fee.

Credits: 4

Lab Hours: 3

Lecture Hours: 3

Prerequisites: [BIOL 230](#)

Program: [Biological Sciences](#)

Semester Offered: Spring even years

BIOL 340: Cell and Molecular Biology I

A study of the internal workings of the cell. The molecular basis of various cell activities is emphasized. Particular attention is paid to molecular genetics, DNA replication, protein synthesis, regulation of gene expression, and methods in molecular biology.

Credits: 4
Lab Hours: 3
Lecture Hours: 3
Prerequisites: **BIOL 320**
Program: **Biological Sciences**
Semester Offered: Fall

BIOL 341: Cell and Molecular Biology II

A study of the internal workings of the cell. The molecular basis of various cell activities is emphasized. Particular attention is paid to mammalian cell culture techniques, molecular transport, cell signaling, the cytoskeleton, the cell cycle, and the extracellular matrix.

Credits: 4
Lab Hours: 3
Lecture Hours: 3
Prerequisites: **BIOL 340**
Program: **Biological Sciences**
Semester Offered: Spring

BIOL 345: Environment and Mankind

Environmental science is a discipline that encompasses learning in the sciences, and touches on human development, governance and policy, and ethics. This course will provide the student with the tools to think critically about the environment and how human decisions and activities influence the quality of our lives and the other creatures we share the earth with. We will engage in lecture, discussion, debate and group projects concerning the impact of environmental problems, such as waste management, climate change, water issues, biodiversity, air pollution, human population, and resource use by society. We will also focus on local problems concerning our environment (Also taught as HNRS 345).

Credits: 4
Lab Hours: 3
Lecture Hours: 3
Program: **Biological Sciences**
Semester Offered: Spring

BIOL 360: Plant Biology

This is a broad course emphasizing importance of plants and their role in human life. This is an applied botany course in which physiology, structure, development and economic botany are studied. The systematic survey section will include algae, mosses, non-seed plants, and seed plants.

Credits: 4
Lab Hours: 3
Lecture Hours: 3
Prerequisites: **BIOL 111 BIOL 112** or permission of instructor
Program: **Biological Sciences**
Semester Offered: Spring even years

BIOL 410: Human Physiology

This course explores the inner workings of the human body and how it maintains homeostasis. Emphasis is placed on understanding structure-function relationships and the interconnectedness of organ systems. Students learn diagnostic problem-solving skills, quantitative laboratory techniques used by physiologists, and methods to evaluate health information using peer-reviewed sources.

Credits: 4
Lab Hours: 3
Lecture Hours: 3
Prerequisites: **BIOL 111, 112** or **BIOL 101, 102**
Program: **Biological Sciences**
Semester Offered: Fall, even years

BIOL 419: Philosophy of Science

A study of the philosophies and methodologies of science. Includes a review of the history of scientific and religious thought and the role each has played in the development of modern theories of origin (Also taught as RELT or GEOL 419 or HNRS 404).

Credits: 3
Program: **Biological Sciences**
Semester Offered: Spring

BIOL 435: Herpetology

Lectures will introduce students to topics of importance to the study of reptiles and amphibians. In lecture, we will focus on anatomy, physiology, taxonomy, ecology, behavior and conservation of this fauna. In laboratories, we will focus on external anatomy, identification skills, habitat preferences, distribution, and collection techniques. We will place emphasis on the fauna in our immediate area, but we will discuss reptiles and amphibians from other areas of Texas in our laboratories.

Credits: 4
Prerequisites: **BIOL 111 BIOL 112**
Program: **Biological Sciences**
Semester Offered: Fall, odd years

BIOL 440: Mammalogy

A systematic study of mammals with emphasis on natural history and ecology.

Credits: 4

Lab Hours: 3

Lecture Hours: 3

Prerequisites: [BIOL 111](#) [BIOL 112](#)

Program: [Biological Sciences](#)

Semester Offered: Fall, odd years

BIOL 443: Comparative Vertebrate Anatomy

An introduction to the classification and diversity of chordates and a comparison of the different vertebrate organ systems. Special consideration will be given to taxonomic comparisons of the skeletal and muscular systems.

Credits: 4

Lab Hours: 3

Lecture Hours: 3

Prerequisites: [BIOL 111](#) [BIOL 112](#)

Program: [Biological Sciences](#)

Semester Offered: Fall, even years

BIOL 450: Histology

An investigation of the structure and function of the tissues of the human body. The course is lab intensive and is intended to acquaint the student with the microscopic characteristics of tissues.

Credits: 4

Lab Hours: 3

Lecture Hours: 3

Prerequisites: [BIOL 111](#) [BIOL 112](#)

Program: [Biological Sciences](#)

Semester Offered: Fall, odd years

BIOL 455: Immunology

This course presents the basic concepts of the innate and adaptive immune systems including details about the molecules, cells and organs involved. Emphasis will be placed on mechanisms of immune system development and response to pathogens, as well as on the classic experiments performed to make key discoveries in immunology.

Credits: 3

Prerequisites: [BIOL 320](#)

Program: [Biological Sciences](#)

Semester Offered: Spring even years

BIOL 462: Ichthyology

A systematic study of fishes with emphasis on anatomy, physiology, taxonomy, behavior, ecology, and conservation of this fauna. In laboratories, we will focus on external anatomy, identification skills, habitat preferences, distribution, and collection techniques. We will place emphasis on the fauna in our immediate area. Lecture and laboratories will discuss fishes from other areas of Texas and the world.

Credits: 4

Lab Hours: 3

Lecture Hours: 3

Prerequisites: [BIOL 111](#) [BIOL 112](#)

Program: [Biological Sciences](#)

Semester Offered: Fall, even years

BIOL 465: Plant Physiology

This is a study of primary plant metabolic processes, including the movement of materials in and out of plant cells and within plants, photosynthesis, respiration, mineral nutrition, nitrogen metabolism and growth analysis. Other topics include environmental physiology such as the effects of temperature, salt, and water stress and the implications of globally rising carbon dioxide.

Credits: 4

Lab Hours: 3

Lecture Hours: 3

Prerequisites: [BIOL 111](#) [BIOL 112](#)

Program: [Biological Sciences](#)

Semester Offered: Periodically

BIOL 475: Management of Fish & Wildlife Resources

This integrative course focuses on ecological principles as they are applied to the conservation and management of fisheries and wildlife resources. We will also discuss how conservation practices are influenced by politics and law, culture, social acceptability and economic feasibility. In lab, you will be introduced to the techniques and equipment used to survey fisheries and wildlife populations. Lec. 3 Lab 3.

Credits: 4

Prerequisites: [BIOL 230](#)

Program: [Biological Sciences](#)

Semester Offered: Fall, odd years

BIOL 480: Research in Biology

A supervised research experience involving the development of a research question, data collection, and data analysis. May be repeated for a total of 5 credits.

Credits: 1 - 2

Prerequisites: Approval of research advisor

Program: [Biological Sciences](#)

Semester Offered: Fall, Spring

BIOL 498: Individual Study Topics

Special study may be pursued beyond completed course work under the direction of a staff member. This study may involve data collection or library work and will involve a written report. Content and method of study must be arranged prior to registration. May be repeated for a total of 3 credits. (Offered periodically)

Credits: 1 - 3

Prerequisites: **BIOL 111 BIOL 112** Two upper division courses; and permission of the instructor

Program: **Biological Sciences**

BIOL 499: Directed Group Study Topics

Provides academic departments an opportunity to offer courses in specialized or experimental areas, either lower or upper division, not listed in the undergraduate *Bulletin*. Student may be allowed to repeat the course for credit.

Credits: 1 - 3

Prerequisites: Approval by department chair

Program: **Biological Sciences**

Business Administration

Faculty/Staff

Aaron Moses, Adventist Health System Endowed Chair of Business Administration; Joshua Michalski, Ana Patterson, Chanda Reins

Adjunct: Scott Cain, Alex Falcon, Brianne Michalski, Judith Miles

Mission

The Department of Business Administration prepares students for Christian service and business leadership in the global economy. Our department is built on academic excellence, integrity, and an entrepreneurial spirit. We serve and value a diverse student body, equipping them with the intellectual fortitude to change the world.

Aims of the Department

- Maintain a curriculum that provides students with the necessary knowledge for successful work experience in today's business environment and graduate studies.
- Promote student's awareness of free enterprise with an international orientation within a framework of moral and ethical guidelines.
- Enrich the learning-teaching experience by fostering access to and utilization of appropriate learning resources.
- Promote faculty and student's involvement in community activities.

B.B.A.

For a dual concentration (ex. Management/Marketing) the student must declare a dual concentration as part of their BBA degree. A minimum of 18 credit hours is required for each concentration. The student must understand that with the additional credit hours, graduation time may be extended. Only required concentration courses will be allowed to overlap between the two concentrations. A course taken as part of one of the concentration's required courses cannot be used as an elective choice in the other concentration. Planning the two concentrations must be done with the aid of the student's advisor.

Business Administration Degrees

B.B.A. Accounting

Numerous career choices are available to accounting graduates, including working in not-for-profit accounting (for the Seventh-day Adventist denomination or other not-for-profit entities), public accounting, industry (ranging from small businesses to large corporations), and governmental accounting.

Program: Business Administration

Type: B.B.A.

Business Core Courses

Required of all BBA students.

**BUAD 202 is required of all Freshman BBA majors. Junior level transfer students may substitute a business elective for this class with approval from their advisor. Southwestern students who are changing from another major to a BBA are also required to take BUAD 202 unless their advisor recommends an alternative.*

Item #	Title	Credits
ACCT 211	Accounting Principles I	3
ACCT 212	Accounting Principles II	3
BUAD 202	Introduction to Contemporary Business	3
BUAD 211	Profiles of Entrepreneurship	3
BUAD 270	Management Information Systems	3
BUAD 301	Principles of Management	3
BUAD 311	Business Law	3
BUAD 460	Ethics and Business Social Responsibility	3
	BUAD 466 or ECON 401	3
BUAD 472	Business Policies and Strategies	3
ECON 211	Macroeconomics	3
ECON 212	Microeconomics	3
FNCE 321	Business Finance	3
MKTG 343	Principles of Marketing	3

Sub-Total Credits	42
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Required Courses

Item #	Title	Credits
ACCT 315	Intermediate Accounting I	4
ACCT 316	Intermediate Accounting II	4
	ACCT Electives	10
Sub-Total Credits	18	

Cognate Requirements

BUAD 317 or COMM 113 may be taken as an alternative to COMM 111 and also fulfill the communication competency requirement.

Item #	Title	Credits
COMM 111	Speech	3
CSIS 106	Comprehensive Spreadsheets	3
MATH 141	Introduction to Probability and Statistics	3
Sub-Total Credits	9	
	Total credits for degree:	69

B.B.A. Finance

Required of all BBA students.

**BUAD 202 is required of all Freshman BBA majors. Junior level transfer students may substitute a business elective for this class with approval from their advisor. Southwestern students who are changing from another major to a BBA are also required to take BUAD 202 unless their advisor recommends an alternative.*

Program: Business Administration

Type: B.B.A.

Business Core Courses

Item #	Title	Credits
ACCT 211	Accounting Principles I	3
ACCT 212	Accounting Principles II	3
BUAD 202	Introduction to Contemporary Business	3
BUAD 211	Profiles of Entrepreneurship	3

BUAD 270	Management Information Systems	3
BUAD 301	Principles of Management	3
BUAD 311	Business Law	3
BUAD 460	Ethics and Business Social Responsibility	3
	BUAD 466 or ECON 401	3
BUAD 472	Business Policies and Strategies	3
ECON 211	Macroeconomics	3
ECON 212	Microeconomics	3
FNCE 321	Business Finance	3
MKTG 343	Principles of Marketing	3
Sub-Total Credits	42	

Required Courses

Item #	Title	Credits
FNCE 433	Investment Principles	3
FNCE 452	International Finance	3
FNCE 488	Advanced Finance	3
FNCE 493	Money and Banking	3
	FNCE Electives	6
Sub-Total Credits	18	

Cognate Requirements

**BUAD 317 or COMM 113 may be taken as an alternative to COMM 111 and also fulfill the communication competency requirement.

Item #	Title	Credits
COMM 111	Speech	3
CSIS 106	Comprehensive Spreadsheets	3
MATH 141	Introduction to Probability and Statistics	3
Sub-Total Credits	9	
	Total credits for degree:	69

B.B.A. International Business

Program: Business Administration

Type: B.B.A.

Business Core Courses

Required of all BBA students.

**BUAD 202 is required of all Freshman BBA majors. Junior level transfer students may substitute a business elective for this class with approval from their advisor. Southwestern students who are changing from another major to a BBA are also required to take BUAD 202 unless their advisor recommends an alternative.*

Item #	Title	Credits
ACCT 211	Accounting Principles I	3
ACCT 212	Accounting Principles II	3
BUAD 202	Introduction to Contemporary Business	3
BUAD 211	Profiles of Entrepreneurship	3
BUAD 270	Management Information Systems	3
BUAD 301	Principles of Management	3
BUAD 311	Business Law	3
BUAD 460	Ethics and Business Social Responsibility	3
	BUAD 466 or ECON 401	3
BUAD 472	Business Policies and Strategies	3
ECON 211	Macroeconomics	3
ECON 212	Microeconomics	3
FNCE 321	Business Finance	3
MKTG 343	Principles of Marketing	3
	Sub-Total Credits	42

Required Courses

Item #	Title	Credits
BUAD 453	Cross-Cultural Studies	3
BUAD 454	International Management	3
FNCE 452	International Finance	3
MKTG 452	International Marketing	3
	International Business Electives	6
	Sub-Total Credits	18

Cognate Requirements

**BUAD 317 or COMM 113 may be taken as an alternative to COMM 111 and also fulfill the communication competency requirement.

Item #	Title	Credits
COMM 111	Speech	3
CSIS 106	Comprehensive Spreadsheets	3
MATH 141	Introduction to Probability and Statistics	3
	Sub-Total Credits	9
	Total credits for degree:	69

B.B.A. Marketing

Program: Business Administration

Type: B.B.A.

Business Core Courses

Required of all BBA students.

**BUAD 202 is required of all Freshman BBA majors. Junior level transfer students may substitute a business elective for this class with approval from their advisor. Southwestern students who are changing from another major to a BBA are also required to take BUAD 202 unless their advisor recommends an alternative.*

Item #	Title	Credits
ACCT 211	Accounting Principles I	3
ACCT 212	Accounting Principles II	3
BUAD 202	Introduction to Contemporary Business	3
BUAD 211	Profiles of Entrepreneurship	3
BUAD 270	Management Information Systems	3
BUAD 301	Principles of Management	3
BUAD 311	Business Law	3
BUAD 321	Business Finance	3
BUAD 460	Ethics and Business Social Responsibility	3
	BUAD 466 or ECON 401	3

BUAD 472	Business Policies and Strategies	3
ECON 211	Macroeconomics	3
ECON 212	Microeconomics	3
MKTG 343	Principles of Marketing	3
Sub-Total Credits		42

Required Courses

Item #	Title	Credits
MKTG 241	Public Relations	3
MKTG 350	Consumer Behavior	3
MKTG 351	Advertising	3
MKTG 443	Marketing Research	3
MKTG 452	International Marketing	3
	Marketing Electives	3
Sub-Total Credits		18

Cognate Requirements

**BUAD 317 or COMM 113 may be taken as an alternative to COMM 111 and also fulfill the communication competency requirement.

Item #	Title	Credits
COMM 111	Speech	3
CSIS 106	Comprehensive Spreadsheets	3
MATH 141	Introduction to Probability and Statistics	3
Sub-Total Credits		9
Total credits for degree:		69

B.B.A. Operations Management

Program: Business Administration

Type: B.B.A.

Business Core Courses

Required of all BBA students.

**BUAD 202 is required of all Freshman BBA majors. Junior level transfer students may substitute a business elective for this class with approval from their advisor. Southwestern students who are changing from another major to a BBA are also required to take BUAD 202 unless their advisor recommends an alternative.*

Item #	Title	Credits
ACCT 211	Accounting Principles I	3
ACCT 212	Accounting Principles II	3
BUAD 202	Introduction to Contemporary Business	3
BUAD 211	Profiles of Entrepreneurship	3
BUAD 270	Management Information Systems	3
BUAD 301	Principles of Management	3
BUAD 311	Business Law	3
BUAD 460	Ethics and Business Social Responsibility	3
	BUAD 466 or ECON 401	3
BUAD 472	Business Policies and Strategies	3
ECON 211	Macroeconomics	3
ECON 212	Microeconomics	3
FNCE 321	Business Finance	3
MKTG 343	Principles of Marketing	3
Sub-Total Credits		42

Required Courses

Item #	Title	Credits
BUAD 467	Supply Chain Analysis	3
BUAD 468	Logistics Management	3
BUAD 469	Quality Control and Improvement	3
BUAD 470	Business Intelligence and Analytics	3
	Operations Electives	6
Sub-Total Credits		18

Cognate Requirements

**BUAD 317 or COMM 113 may be taken as an alternative to COMM 111 and also fulfill the communication competency requirement.

Item #	Title	Credits
COMM 111	Speech	3
CSIS 106	Comprehensive Spreadsheets	3

MATH 141	Introduction to Probability and Statistics	3
Sub-Total Credits		9
Total credits for degree:		69

B.S. Business

The Bachelor of Science (BS) in Business is a business degree intended to be a general business degree. Additionally, this degree gives students pursuing other areas of interest (i.e., pre-med, pre-dental, pre-law, etc.) more flexibility to invest in other fields while still developing the breadth of management, interpersonal and professional skill required in today's complex business world. The BS in Business degree is also designed to be compatible with Southwestern's Distance Education program.

Program: Business Administration

Type: B.S.

Required Courses

BUAD 372, BUAD 454, BUAD 423, and ECON 401 may be substituted for another business course with the approval of your advisor. You must have at least one international course.

Item #	Title	Credits
ACCT 211	Accounting Principles I	3
BUAD 202	Introduction to Contemporary Business	3
BUAD 270	Management Information Systems	3
BUAD 301	Principles of Management	3
BUAD 311	Business Law	3
BUAD 317	Business Communication	3
BUAD 372	Human Resources Management	3
BUAD 454	International Management	3
	BUAD 423 or ECON 401	3
BUAD 460	Ethics and Business Social Responsibility	3
BUAD 472	Business Policies and Strategies	3
	ECON 211 or ECON 212	3

FNCE 321	Business Finance	3
MKTG 343	Principles of Marketing	3
Sub-Total Credits		42

Cognate Requirements

Item #	Title	Credits
CSIS 106	Comprehensive Spreadsheets	3
MATH 141	Introduction to Probability and Statistics	3
Sub-Total Credits		6
Total credits for degree:		48

Minor in Accounting

Program: Business Administration

Type: Minor

Required Courses

Item #	Title	Credits
ACCT 211	Accounting Principles I	3
ACCT 212	Accounting Principles II	3
ACCT 315	Intermediate Accounting I	4
ACCT 316	Intermediate Accounting II	4
	ACCT Electives upper division	4
Sub-Total Credits		18
Total credits for degree:		0

Minor in Business

Program: Business Administration

Type: Minor

Required Courses

Item #	Title	Credits
ACCT 211	Accounting Principles I	3
ACCT 212	Accounting Principles II	3
	ECON 211 or ECON 212	3
BUAD 301	Principles of Management	3

BUAD Electives (upper division)	6
Sub-Total Credits	18
Total credits for degree:	18

Minor in Finance

Program: Business Administration

Type: Minor

Required Courses

Item #	Title	Credits
ACCT 211	Accounting Principles I	3
ECON 211	Macroeconomics	3
FNCE 321	Business Finance	3
FNCE 433	Investment Principles	3
FNCE 452	International Finance	3
	Finance Minor Electives	3
Sub-Total Credits	18	
Total credits for degree:	18	

Minor in International Business

Program: Business Administration

Type: Minor

Required Courses

Item #	Title	Credits
ACCT 211	Accounting Principles I	3
FNCE 321	Business Finance	3
FNCE 452	International Finance	3
BUAD 453	Cross-Cultural Studies	3
BUAD 454	International Management	3
MKTG 452	International Marketing	3
Sub-Total Credits	18	
Total credits for degree:	18	

Minor in Marketing

Program: Business Administration

Type: Minor

Required Courses

Item #	Title	Credits
ECON 212	Microeconomics	3
MKTG 343	Principles of Marketing	3
MKTG 452	International Marketing	3
	Marketing Minor Electives	9
Sub-Total Credits	18	
Total credits for degree:	18	

Senior Living Management Certificate

Senior Living Management Certificate

The senior living industry (e.g., assisted living, independent living, and memory care) employs administrators who have real-world experiences, but may lack specific formal education in business and in the senior living industry. Southwestern Adventist University's Senior Living Management Certificate meets the educational needs of current administrators of senior living facilities or professionals who are interested in transitioning into the senior living industry. Students will gain a foundational understanding of the key areas of business administration as well as how to apply these principles in the successful operation of a senior living facility. Additionally, students will become knowledgeable on topics specifically related to the industry such as federal and state regulations, senior wellness and the long-term care continuum.

The program curriculum, offered entirely online, consists of four courses, totaling 12 semester hours of upper division college credit. The certificate does not constitute a college degree, though credits may be transferred to any other accredited college or university and may be applied toward a degree at Southwestern Adventist University. Each course meets the Texas Licensing Standards for Assisted Living Facilities 8-hour continuing education.

Admission Requirements

Applicants to the Senior Living Management Certificate must have earned at least 60 college credit hours OR have at least 3 years of experience within the senior living industry. Applicants must:

1. Complete an application for admission into the certificate program
2. Pay a non-refundable application fee of \$25
3. Provide proof of eligibility by *one* of the following methods:

- Submit official transcripts
- If eligibility is based on work experience, applicants must also submit a current professional resume AND a signed letter from current or previous employer confirming work experience

Certificate Completion

Certificates will be awarded to students who complete all course requirements and maintain a minimum 2.5 grade point average. Candidates must submit a Certificate Completion contract to the Records Office. A \$25 certificate fee is required at the time the certificate is completed.

Cost of the Certificate

Tuition for non-degree seeking students is \$400 per credit hour (or \$1,200 per course) plus a technology fee. There are currently no scholarships available from the university for non-degree seeking students. All charges must be covered at the time of registration for each course. Costs for degree-seeking students will follow the normal tuition rate and scholarships may be available.

Program: Business Administration

Certificate Course Requirements

Item #	Title	Credits
BSLM 301	Legal and Ethical Framework of Senior Living	3
BSLM 302	Quality in Resident Care and Services	3
BSLM 303	Financial and Human Resource Management of Senior Living Facilities	3
BSLM 304	Senior Living Marketing, Management and Leadership	3
Sub-Total Credits		12
Total credits for degree:		12

Senior Living Management Certificate

Program Description

The senior living industry (e.g., assisted living, independent living, and memory care) employs administrators who have real-world experiences, but may lack specific formal education in business and in the senior living industry. Southwestern Adventist University's Senior Living Management Certificate meets the educational needs of

current administrators of senior living facilities or professionals who are interested in transitioning into the senior living industry. Students will gain a foundational understanding of the key areas of business administration as well as how to apply these principles in the successful operation of a senior living facility. Additionally, students will become knowledgeable on topics specifically related to the industry such as federal and state regulations, senior wellness and the long-term care continuum.

The program curriculum, offered entirely online, consists of 4 courses, totaling 12-semester hours of college credit. The certificate does not constitute a college degree, though credits may be transferred to any other accredited college or university and may be applied toward a degree at Southwestern Adventist University. Courses may meet several states' continuing education requirements assisted living managers.

Admission Requirements

Applicants to the Senior Living Management Certificate must:

1. Complete an application for admission into the certificate program.
2. Submit official transcripts from all college/universities attended.
3. If applicant has NOT earned a college degree (Associate's degree or higher), the applicant must submit

one of the following:

1. Official secondary school transcript with a grade point average (GPA) of at least 2.50 (on a 4.00 scale).
2. General Education Development (GED) test average score of 500 with no score below 450. Texas GED 150-159 subject to committee review. 160-200 regular admission.
3. Home school transcript with courses, grades, and dates of completion with a state-issued certificate of secondary school completion if applicable.
4. General Certificate of Secondary Education: must have five (5) passes or more.

Certificate Completion

Certificates will be awarded to students who complete all course requirements. No class with a grade below a C may be applied to certificate completion. Candidates must submit a Certificate Completion contract to the Records Office. A \$25 certificate fee is required at the time the certificate is completed.

Cost of the Certificate

Tuition for non-degree seeking students is \$400 per credit hour (or \$1,200 per course) plus a \$50 technology fee. There are currently no scholarships available from the university for non-degree seeking students. All charges

must be covered at the time of registration for each course. Costs for degree-seeking students will follow the normal tuition rate and scholarships may be available.

Program: Business Administration

Type: Cert

Certificate Course Requirements

Item #	Title	Credits
BSLM 201	Legal and Ethical Framework of Senior Living	3
BSLM 202	Quality in Resident Care and Services	3
BSLM 203	Financial and Human Resource Management of Senior Living Facilities	3
BSLM 204	Senior Living Marketing, Management and Leadership	3
Sub-Total Credits		12
Total credits for degree:		12

ACCT 211: Accounting Principles I

Nature of accounting data and its use in business, fundamental procedures and records, operating cycle, preparation of financial statements, measurement of income and assets.

Credits: 3

Program: Business Administration

Semester Offered: Fall

ACCT 212: Accounting Principles II

Accounting procedures and practices in partnerships and corporations, development of accounting data for use in management decisions, financial statement analysis, cash flow, income tax.

Credits: 3

Prerequisites: ACCT 211

Program: Business Administration

Semester Offered: Spring

ACCT 315: Intermediate Accounting I

An in-depth study of the theory and techniques of financial accounting, including an accounting conceptual framework, a review of the accounting process and financial statement presentation, liabilities, and accounting concerns and standards relating to both current and noncurrent assets. This course covers materials and methods tested on the CPA exam.

Credits: 4

Prerequisites: ACCT 212

Program: Business Administration

Semester Offered: Fall

ACCT 316: Intermediate Accounting II

A continuation of ACCT 315 emphasizing the application of accounting theory and standards to liabilities, equity, revenue recognition, leases, post-retirement benefits, income taxes, financial analysis, and accounting prices. Approximately one-quarter of this course deals with accounting research. This course covers materials and methods tested on the CPA exam.

Credits: 4

Prerequisites: ACCT 315

Program: Business Administration

Semester Offered: Spring

ACCT 317: Cost Accounting

An in-depth study of the technical aspects of cost accounting systems including cost allocations; joint product and by-product accounting; actual, standard, and direct cost methods. Process costing is emphasized. This course covers materials tested on the CPA exam.

Credits: 3

Prerequisites: ACCT 212

Program: Business Administration

Semester Offered: Fall, odd years

ACCT 319: Fund Accounting

Special accounting procedures for units of government and other not-for-profit organizations. This course covers materials and methods tested on the CPA exam.

Credits: 3

Prerequisites: ACCT 212

Program: Business Administration

Semester Offered: Spring odd years

ACCT 412: Auditing

A study of the theory and practice of auditing, with an emphasis on auditor compliance with governmental and professional regulations as well as ethical standards and on the detection of fraud. This course covers materials and methods tested on the CPA exam.

Credits: 3

Prerequisites: [ACCT 212](#)

Program: [Business Administration](#)

Semester Offered: Fall, odd years

ACCT 415: Advanced Accounting

A study of advanced accounting and financial reporting topics including business combinations and consolidated financial statements, partnerships and branches, bankruptcy, multinational enterprises, and segments. This course covers materials and methods tested on the CPA exam.

Credits: 3

Prerequisites: [ACCT 316](#)

Program: [Business Administration](#)

Semester Offered: Fall, even years

ACCT 417: Accounting Information Systems

A conceptual foundation of accounting information systems with emphasis on security, internal controls and setting up a computerized system using commercial accounting software.

Credits: 3

Prerequisites: [ACCT 212](#)

Program: [Business Administration](#)

Semester Offered: Spring odd years

ACCT 418: Federal Income Taxes

A study of the provisions of federal income tax laws as they apply to individuals, corporations, and other taxpayers. Emphasis is on personal income taxes, the various types of income, and the deductibility of costs and expenses in the determination of tax liability. Approximately one-quarter of this course deals with tax accounting research. This course covers materials and methods tested on the CPA exam.

Credits: 4

Prerequisites: [ACCT 212](#)

Program: [Business Administration](#)

Semester Offered: Spring even years

ACCT 492: Accounting Internship

This course is an on-the-job, career-oriented internship program for training in accounting. Variable credit of 3-8 semester hours is available. Admission to internship is limited to students who have completed 40 semester hours in the business core and concentration and have maintained a GPA of at least 2.50 in the major. Prior approval of the business internship coordinator and department chair are required before the internship is started. The internship may count as one three-hour elective course in the accounting concentration. Note: A student may not exceed a total of 8 hours for ACCT 492, BUAD 492, and MKTG 492 combined. Eligible for IP grading.

Credits: 3 - 8

Program: [Business Administration](#)

ACCT 498: Individual Study Topics

Designed for the student who wishes to do independent study or research. Content and method of study must be arranged prior to registration. May be repeated for a total of 3 credits.

Credits: 1 - 3

Prerequisites: Permission of department chair

Program: [Business Administration](#)

BSLM 201: Legal and Ethical Framework of Senior Living

While integrating essential topics in business communications, this course will examine, within the context of the senior living industry, how business disputes are resolved in our legal system, how to minimize the risk of legal action, methods of evaluating ethical dilemmas, and the federal and state laws and regulations applicable to the classification, construction and operation of senior living facilities.

Credits: 3

Program: [Business Administration](#)

BSLM 202: Quality in Resident Care and Services

This course will discuss how to provide excellent quality of care and customer service to all senior living facility stakeholders. Topics covered will include facility design, customer service, family care services, senior healthcare, nutrition, and memory care training.

Credits: 3

Prerequisites: BSLM 201 or permission from Advisor

Program: [Business Administration](#)

BSLM 203: Financial and Human Resource Management of Senior Living Facilities

Best practices for financial and human resource management will be the focus of this course. Topics will include budgeting, interpretation of financial statements, basic accounting principles, recruiting, hiring, scheduling, performance reviews, personnel laws and employee retention strategies.

Credits: 3

Prerequisites: BSLM202 or permission from Advisor

Program: [Business Administration](#)

BSLM 204: Senior Living Marketing, Management and Leadership

This course will focus on how to successfully manage and grow a senior living facility. Established marketing principles will be explored along with industry-specific sales strategies. Other topics discussed will include management principles, management versus leadership, leadership styles, motivation, and leading high-performing teams.

Credits: 3

Prerequisites: BSLM202 & BSLM203 or permission from Advisor

Program: [Business Administration](#)

BSLM 301: Legal and Ethical Framework of Senior Living

While integrating essential topics in business communications, this course will examine, within the context of the senior living industry, how business disputes are resolved in our legal system, how to minimize the risk of legal action, methods of evaluating ethical dilemmas, and the federal and state laws and regulations applicable to the classification, construction and operation of senior living facilities.

Credits: 3

Prerequisites: [ENGL 121](#) or equivalent

Program: [Business Administration](#)

BSLM 302: Quality in Resident Care and Services

This course will discuss how to provide excellent quality of care and customer service to all senior living facility stakeholders. Topics covered will include facility design, customer service, family care services, senior healthcare, nutrition, and memory care training.

Credits: 3

Prerequisites: [BSLM 301](#) or permission from Advisor

Co-Requisites: or equivalent

Program: [Business Administration](#)

BSLM 303: Financial and Human Resource Management of Senior Living Facilities

Best practices for financial and human resource management will be the focus of this course. Topics will include budgeting, interpretation of financial statements, basic accounting principles, recruiting, hiring, scheduling, performance reviews, personnel laws and employee retention strategies.

Credits: 3

Prerequisites: [BSLM 301](#) or permission from Advisor

Co-Requisites: or equivalent

Program: [Business Administration](#)

BSLM 304: Senior Living Marketing, Management and Leadership

This course will focus on how to successfully manage and grow a senior living facility. Established marketing principles will be explored along with industry-specific sales strategies. Other topics discussed will include management principles, management versus leadership, leadership styles, motivation, and leading high-performing teams.

Credits: 3

Prerequisites: [BSLM 302](#) [BSLM 303](#) or permission from Advisor

Program: [Business Administration](#)

BUAD 120: Personal Finance

An introduction to personal financial planning and the impact of economics, environment, age, geographic location, personal income and career choice on personal finances. Some topics include planning processes, budgets, taxes, credit, loans, insurance, investing and retirement planning.

Credits: 3

Program: [Business Administration](#)

Semester Offered: Spring

BUAD 202: Introduction to Contemporary Business

An introduction to business models and functions within the current cultural and technological environments. Careers in each of the major areas of Business and common career orientation skills are introduced. The course further aims to provide practical research skills that are commonly used in the different functions of business. Additionally, the course serves as an instrument where the students' knowledge of business upon entering the program can be assessed as well as a place to introduce graduation requirements of the business program. Portfolio requirements are covered.

Credits: 3

Program: [Business Administration](#)

Semester Offered: Fall

BUAD 211: Profiles of Entrepreneurship

A course exploring the essence of entrepreneurship as expressed by leading experts in the field and visiting business professionals who share their personal experience. Emphasis is placed on innovation and teamwork as class members engage in new venture development.

Credits: 3

Program: [Business Administration](#)

Semester Offered: Spring

BUAD 250: Project Management and Leadership

Course open to business and nonbusiness students who desire to learn and practice the intricacies of project management and leadership. Subjects include project planning, budgeting, scheduling, implementing, evaluating and reporting. Students will work as part of entrepreneurial teams to design, develop and implement projects. Each team will work independently, with the guidance of industry mentors and faculty coaches, to develop and implement specific projects. Enactus may be used as a means for accomplishing the practical aspects of the course. Lec & Lab.

Credits: 1

Program: [Business Administration](#)

Semester Offered: Fall

BUAD 251: Project Management

or permission of department chair Course open to business majors to practice the intricacies of project management and leadership. Under the direction of a faculty member, a student will identify, plan, and implement a project that is congruent with his/her professional training and goals. Students will be active members of the Enactus team. May be repeated for a total of 3 credits.

Credits: 1 - 3

Prerequisites: BUAD 250 or permission of department chair

Program: [Business Administration](#)

Semester Offered: Spring

BUAD 270: Management Information Systems

The fundamentals of information systems: hardware and software, extensive information on database systems, telecommunications, electronic commerce, and knowledge management. Spreadsheet applications will also be covered in depth.

Credits: 3

Prerequisites: Grade of at least 70 on the computer entrance test, or CSIS 102 or CSIS 110 or permission of the department.

Program: [Business Administration](#)

Semester Offered: Fall

BUAD 295: Health Care Management

This course will explore the application of management theories in a regional hospital. Lectures will be presented by visiting professionals currently managing a regional hospital. Lectures will cover both the strategic planning and the day-to-day operations necessary to operate a regional hospital.

Credits: 1

Program: [Business Administration](#)

BUAD 298: Individual Study Topics

Designed for the student who wishes to do independent study or research. Content and method of study must be arranged prior to registration. Alternatively, Selected Topics may be used for teaching special courses on a limited basis that are not listed otherwise in the bulletin. This class may be repeated for different topics.

Credits: 1 - 3

Program: [Business Administration](#)

BUAD 299: Directed Group Study Topics

Provides academic departments an opportunity to offer courses in specialized or experimental areas, either lower or upper division, not listed in the undergraduate *Bulletin*. May be repeated for a total of 3 credits.

Credits: 1 - 3

Prerequisites: Approval by department chair

Program: [Business Administration](#)

BUAD 301: Principles of Management

A foundation course introducing the key management function of planning, organizing, leading, and controlling. Emphasis placed on leading and managing international organizations in a global economy and marketplace.

Credits: 3

Program: [Business Administration](#)

Semester Offered: Fall

BUAD 302: Advanced Software Applications

Information systems, components of the Office suite, and integration of the individual software packages with one another and the Internet. Projects will challenge students to apply advanced software functions to real-life business scenarios.

Credits: 3

Prerequisites: [CSIS 102](#)

Program: [Business Administration](#)

BUAD 311: Business Law

A study of the legal issues confronted in business operations. A general overview of the legal environment is presented, followed by an in-depth examination of contract law and the law of agency. This course covers materials tested on the CPA exam.

Credits: 3

Program: [Business Administration](#)

Semester Offered: Spring

BUAD 317: Business Communication

This course is designed to survey the principles and forms of communication frequently found in domestic and international organizations. Emphasis on oral and written communication theory and practice. This covers materials tested on the CPA Exam.

Credits: 3

Program: [Business Administration](#)

Semester Offered: Spring

BUAD 372: Human Resources Management

A course designed to provide a working knowledge of personnel functions, with emphasis on recruitment, selection, training, job design, performance evaluation, wage/salary administration, and compliance with regulation.

Credits: 3

Program: [Business Administration](#)

Semester Offered: Spring

BUAD 423: Organizational Behavior

A study of the understanding, prediction, and control of human behavior within organizations. Topics include motivation, learning, leadership, diversity, communication, interpersonal behavior, group dynamics, decision-making and change.

Credits: 3

Prerequisites: [BUAD 301](#)

Program: [Business Administration](#)

Semester Offered: Fall

BUAD 451: International Business

An analysis of how culture and social values influence management and marketing practices throughout the world. Problems and perspectives encountered in operating business across boundaries are considered.

Credits: 3

Prerequisites: [BUAD 301](#) [MKTG 343](#)

Program: [Business Administration](#)

BUAD 453: Cross-Cultural Studies

A study of communication between cultures in an ever-changing world. This course will examine the interdependent global society, the structure and identity of culture, worldviews and cultural values. The effects of cross cultural communication, both verbal and nonverbal, in business settings will be examined. Practical applications are made for cultural differences, management expectations, and marketing practices.

Credits: 3

Program: [Business Administration](#)

Semester Offered: Spring

BUAD 454: International Management

This course will provide students necessary skills and knowledge to manage within organizations that are multinational. There is an emphasis on the study and analysis of environmental forces, organizational design and organizational strategy in the global environment.

Credits: 3

Prerequisites: [BUAD 301](#)

Program: [Business Administration](#)

BUAD 460: Ethics and Business Social Responsibility

A study of the ethical, social, and legal responsibilities of business to its stakeholders, in relation to a dynamic macro-environment. Research paper required.

Credits: 3

Program: [Business Administration](#)

Semester Offered: Fall

BUAD 466: Production and Operations Management

A study and analysis of the planning, design, direction, and control of physical and human resources used in the production of goods and services. Emphasis is placed on solutions to operational problems in the physical, locational, storage, and general service subsystems.

Credits: 3

Prerequisites: [MATH 141](#)

Program: [Business Administration](#)

Semester Offered: Fall

BUAD 467: Supply Chain Analysis

A study and analysis of the lean supply chain. Emphasis is placed in forecasting methods, demand analysis and the integration of demand into the production schedule throughout the value chain. Integrates advanced statistics and simulations.

Credits: 3

Prerequisites: [MATH 141](#) [CSIS 106](#) Recommended: [BUAD 466](#)

Program: [Business Administration](#)

Semester Offered: Spring odd years

BUAD 468: Logistics Management

A focused course within the supply chain, emphasizing the modes of transportation available, cost, timing, service and tradeoffs with overall production strategy. Explores storage and movement of goods throughout the production cycle.

Credits: 3

Prerequisites: Recommended: BUAD 466

Program: [Business Administration](#)

Semester Offered: Fall, odd years

BUAD 469: Quality Control and Improvement

A demonstration of mastery and technical proficiency in statistics and quality control, as prescribed very various different quality management systems such as Six Sigma and Agile. This includes foundations, measurement, analysis, improvement and controlling phases. Course includes a hands-on project for quality evaluation and improvement and a comprehensive exam. Students who pass the exam will earn an internationally recognized certification in quality management such as Six Sigma or Agile.

Credits: 3

Prerequisites: [MATH 141](#)

Program: [Business Administration](#)

Semester Offered: Spring even years

BUAD 470: Business Intelligence and Analytics

A practical course combining applied statistics and database software. Emphasis is placed on obtaining and extrapolating data to develop reports, workflows, schedules and operational decisions in the context of linear programming.

Credits: 3

Prerequisites: [MATH 141](#) [CSIS 106](#) **Recommended:** BUAD 466

Program: [Business Administration](#)

Semester Offered: Fall, even years

BUAD 472: Business Policies and Strategies

Subject to prior permission of department chair. An integrative capstone course that explains what policies are, how they relate to strategies, and how a manager builds a strategic dimension into his or her actions. Any problem or opportunity - accounting, management, marketing, finance, production, organizational, personnel or other organizational dimensions - if it materially affects a firm's performance, is of strategic concern. The Peregrine Business Administration Common Professional Component exam is taken and student participates in the Business Strategy Game simulation. Portfolio requirement and completion is covered. Lab Fee.

Credits: 3

Prerequisites: Open only to seniors majoring in the department. Subject to prior permission of department chair.

Program: [Business Administration](#)

Semester Offered: Spring

BUAD 492: Business Internship

An on-the-job, career-oriented internship program for training in business management. Variable credit of 3-8 semester hours is available. Admission to internship is limited to students who have completed 40 semester hours in the business core and concentration and have maintained a GPA of at least 2.50 in the major. Prior approval of the business internship coordinator and department chair are required before the internship is started. The internship may count as one three-hour elective course in the management concentration. Note: A student may not exceed a total of 8 hours for BUAD 492, ACCT 492, and MKTG 492 combined. Eligible for IP grading.

Credits: 3 - 8

Program: [Business Administration](#)

BUAD 496: Senior Business Seminar

Preparation for meeting the demands of the work and academic worlds after graduation. Topics include current trends, issues, challenges, and opportunities in business and in graduate education. Portfolio requirement. Senior Exit Test given.

Credits: 1

Program: [Business Administration](#)

BUAD 498: Individual Study Topics

Designed for the student who wishes to do independent study or research. Content and method of study must be arranged prior to registration. Alternatively, Selected Topics may be used for teaching special courses on a limited basis that are not listed otherwise in the bulletin. This class may be repeated for different topics.

Credits: 1 - 3

Program: [Business Administration](#)

BUAD 499: Directed Group Study Topics

Provides academic departments an opportunity to offer courses in specialized or experimental areas, either lower or upper division, not listed in the undergraduate *Bulletin*. Student may be allowed to repeat the course for credit.

Credits: 1 - 3

Prerequisites: Approval by department chair

Program: [Business Administration](#)

ECON 211: Macroeconomics

A basic study of macroeconomics which includes national problems such as supply and demand, growth, output and productivity, inflation, employment, interest rates, trade balance, and fiscal and monetary policies.

Credits: 3

Prerequisites: Aleks Placement Test Score 46-60 and high school Algebra II with a grade of at least a B-, or MATH 110 with a C- or higher, or enrolled in MATH 110 concurrently, or permission of the department

Program: [Business Administration](#)

Semester Offered: Fall

ECON 212: Microeconomics

A basic study of microeconomics which includes supply and demand theory, production and operation cost theory, consumer theory, price theory, competition, market structures, economics of the firm, and the role of government.

Credits: 3

Prerequisites: Aleks Placement Test Score 46-60 and high school Algebra II with a grade of at least a B-, or MATH 110 with a C- or higher, or enrolled in MATH 110 concurrently, or permission of the department.

Program: [Business Administration](#)

Semester Offered: Spring

ECON 401: Managerial Economics

A course designed to integrate advanced microeconomics theory and analysis into the strategy and analysis used in business management, operations, marketing and finance. Course will evaluate fundamentals of industry competition; the structure of markets and how firms participate in these markets; growth and consolidation of markets and governmental responses; analysis of market power; the predictive behavior of firms from the framework of a game model; competitive behaviors of firms that include price discrimination, collusion and vertical integration, industrial regulation and public policy.

Credits: 3

Prerequisites: [ECON 211](#) **Recommended:** MATH 141

Program: [Business Administration](#)

Semester Offered: Fall

FNCE 321: Business Finance

A survey of the field of finance, both private and public. Emphasis is placed on current problems in the field. Financial institutions are discussed, and loans and investment practices are analyzed.

Credits: 3

Prerequisites: [ACCT 211](#)

Program: [Business Administration](#)

Semester Offered: Fall

FNCE 422: Portfolio Management

This course will focus on portfolio optimization and asset allocation, the basics of bond pricing and debt portfolio management, the theory of asset pricing models and their pricing and debt portfolio management, the theory of asset pricing models and their implications for investment as well as techniques for evaluating investment management performance. The course will build upon the analytical skills developed in Financial Management.

Credits: 3

Prerequisites: [FNCE 321](#)

Program: [Business Administration](#)

Semester Offered: Spring odd years

FNCE 433: Investment Principles

Provides the student with the tools necessary for evaluating investments, including stocks, bonds, options and commodities. Evaluate the organization of securities markets, mutual fund investing, efficient market hypothesis, and fundamental analysis and valuation. Additionally, it presents a systematic methodology for constructing efficient portfolios and evaluating portfolio performance.

Credits: 3

Prerequisites: [FNCE 321](#)

Program: [Business Administration](#)

Semester Offered: Spring even years

FNCE 450: Working Capital Management

This course includes topics addressing short-term financial management and covers the cost to benefit trade-offs of liquidity, management of working capital, management and budgeting of cash, short-term investing and financing issues.

Credits: 3

Prerequisites: [FNCE 321](#)

Program: [Business Administration](#)

Semester Offered: Spring even years

FNCE 452: International Finance

Financial management and economic theory in the international environment. The impact of regulation, taxation, capital and money markets, working capital management, capital budgeting, risk, and exchange rates on decision-making are considered. Consideration is also given to the development and application of economic principles within the world economy.

Credits: 3

Prerequisites: [FNCE 321](#) [ECON 211](#)

Program: [Business Administration](#)

Semester Offered: Spring

FNCE 488: Advanced Finance

General survey of financial theories, from the viewpoint of both the financial officer or manager and creditor or stockholder.

Credits: 3

Prerequisites: [FNCE 321](#)

Program: [Business Administration](#)

Semester Offered: Spring

FNCE 493: Money and Banking

This course addresses classical and contemporary issues in the theory of money, banking, and financial institutions.

Topics covered include: the gold standard, the structure of central banks and the Federal Reserve system, theories of money demand and money supply, the relationship between money supply and overall economic activity, the theoretical and practical aspects of monetary policies and money creation, the efficacy of fiscal policies versus monetary policies, and the role the Federal Reserve plays in economic stabilization. We shall pay particular attention to the money creation plays in economic stabilization. We shall pay particular attention to the money creation process, to endogenous money versus exogenous money, and to the ability of the Federal Reserve to stabilize the economy.

Credits: 3

Prerequisites: [ECON 211](#)

Program: [Business Administration](#)

Semester Offered: Fall, even years

MKTG 237: Video Production

This course includes segments on lighting, the video camera, the production switcher, equipment interconnection, digital nonlinear editing, and program production for television. Emphasis is given to multiple camera techniques for both studio and location productions. Supplies fee.

. (Also taught as [COMM 237](#).)

Credits: 3

Program: [Business Administration](#)

Semester Offered: Spring

MKTG 241: Public Relations

A course dealing with definitions, basic objectives, and concepts of public relations. Attention is given to the role of public relations, research for public relations, public and target audiences, communication concepts and channels, campaigns, and the legal and ethical environment of public relations. (Also taught as [COMM 241](#).)

Credits: 3

Program: [Business Administration](#)

Semester Offered: Fall

MKTG 303: E-commerce and Web Site Design

An examination of the ground rules for competitive survival in the new market space of electronic commerce, including the electronic channels or well-designed Web sites and their impact on small and large business entities. Emphasis will be placed on analyzing information and applying graphic design techniques to develop effective Web pages for on-line business. Topics include e-commerce, navigation, security issues, networks, business models, and an overview of Web design and development tools.

Credits: 3

Program: [Business Administration](#)

MKTG 343: Principles of Marketing

An introductory course dealing with basic marketing concepts. Emphasis is placed on managerial decisions to meet customer needs in the areas of product design, price, promotion, and distribution. Lab Fee.

Credits: 3

Program: [Business Administration](#)

Semester Offered: Fall

MKTG 350: Consumer Behavior

An integration of marketing theory and the behavioral sciences in order to understand choices and influences in consumer decision behavior.

Credits: 3

Prerequisites: [MKTG 343](#)

Program: [Business Administration](#)

Semester Offered: Spring

MKTG 351: Advertising

This course studies the role of advertising in society, its impact on the economy, its function in business and marketing, and its communication aspects, including media applications. Attention is given to social, legal, and ethical considerations, the business of advertising, consumer behavior, and creative strategies and processes. (Also taught as [COMM 351](#).)

Credits: 3

Program: [Business Administration](#)

Semester Offered: Spring

MKTG 402: E-Commerce Environment

A course designed to explore the world of e-business through using the web for selling and promotion. Emphasis is placed on the use of social networks, developing e-commerce sites, processing payments, trust and security, protecting intellectual property, optimizing search engine results, and new methods of doing business online.

Credits: 3

Program: [Business Administration](#)

MKTG 442: Applied Advertising and Public Relations

This course uses team projects to teach the tools and techniques necessary to work in the fields of advertising and public relations. Advertising assignments may include, but are not limited to, image and identity, political advertising, jingles and slogans, campaigns for large and small companies, and demographic and psychographic research. Public relations assignments may include, but are not limited to, crisis management, special events, media relations, publications, and internal communications. (Also taught as COMM 442.)

Credits: 3

Program: [Business Administration](#)

Semester Offered: Fall, even years

MKTG 443: Marketing Research

An overview of research theories, concepts, and methodologies as applied to marketing problems. Attention is directed toward the application of sampling, sample design, data analysis of marketing problems, and how findings are used in formulating marketing policies.

Credits: 3

Prerequisites: [MKTG 343](#)

Program: [Business Administration](#)

Semester Offered: Spring odd years

MKTG 452: International Marketing

This course will provide students skills and knowledge of the strategies for entering the international marketplace. An emphasis is placed on the impact of sociocultural, economic, technological, governmental, and demographic factors on the international marketing mix.

Credits: 3

Prerequisites: [MKTG 343](#)

Program: [Business Administration](#)

Semester Offered: Fall

MKTG 492: Marketing Internship

This course is an on-the-job, career-oriented internship program for training in marketing and e-commerce. Variable credit of 3-8 hours is available. Admission to internship is limited to students who have completed 40 semester hours in the business core and concentration and have maintained a GPA of at least 2.50 in the major. Prior approval of both the business internship coordinator and the department chair is required before the internship is started. The internship may count as one three-hour elective course in the marketing concentration. 45 work hours for each internship credit are needed. Note: A student may not exceed a total of 8 hours for MKTG 492, ACCT 492 and BUAD 492 combined. Eligible for IP grading.

Credits: 3 - 8

Program: [Business Administration](#)

Chemistry and Physics

Faculty/Staff

Gerald Springer, Chair; Nicholas Madhiri

Aims of the Chemistry Program

The aim of the chemistry program is to develop in students the ability to think critically and creatively. The chemistry curriculum is designed to provide the student with a strong background in the areas of organic chemistry, biochemistry, analytical chemistry and physical chemistry. The major will serve as a solid foundation upon which the candidate can build a professional career or a more specialized graduate program.

Chemistry and Physics Degrees

B.A. Chemistry

Program: Chemistry and Physics

Type: B.A.

Required Courses

Item #	Title	Credits
CHEM 111	General Chemistry I	4
CHEM 112	General Chemistry II	4
CHEM 201	Research Methods in the Physical Sciences	1
CHEM 221	Modern Analytical Chemistry	4
CHEM 231	Organic Chemistry I	4
CHEM 232	Organic Chemistry II	4
CHEM 341	Physical Chemistry I	4
CHEM 431	Biochemistry I	3
CHEM 432	Biochemistry I Lab	1
CHEM 462	Inorganic Chemistry	3
CHEM 475	Research Methods in Chemistry	4
	CHEM Electives upper division	4
	Sub-Total Credits	40

Required Cognates

Item #	Title	Credits
MATH 181	Calculus I	4
PHYS 121	General Physics I	4
PHYS 122	General Physics II	4
	Sub-Total Credits	12

Recommended cognates:

Item #	Title	Credits
MATH 182	Calculus II	4
MATH 283	Calculus III	4
CSIS 110	Principles of Computer Programming I	3
PHYS 221	General Physics with Calculus I	1
PHYS 222	General Physics with Calculus II	1
	Sub-Total Credits	13
	Total credits for degree:	65

B.S. Biochemistry

Program: Chemistry and Physics

Type: B.S.

Required Courses

Item #	Title	Credits
BIOL 111	General Biology I	4
BIOL 112	General Biology II	4
BIOL 340	Cell and Molecular Biology I	4
	Biochemistry Electives	4
CHEM 111	General Chemistry I	4
CHEM 112	General Chemistry II	4
CHEM 201	Research Methods in the Physical Sciences	1
CHEM 221	Modern Analytical Chemistry	4
CHEM 231	Organic Chemistry I	4
CHEM 232	Organic Chemistry II	4
CHEM 341	Physical Chemistry I	4

CHEM 431	Biochemistry I	3
CHEM 432	Biochemistry I Lab	1
CHEM 433	Biochemistry II	3
CHEM 434	Biochemistry II Lab	1
CHEM 475	Research Methods in Chemistry	4
	CHEM Electives upper division	4
Sub-Total Credits		57

Required Cognates

Item #	Title	Credits
MATH 181	Calculus I	4
MATH 182	Calculus II	4
MATH 283	Calculus III	4
PHYS 121	General Physics I	4
PHYS 122	General Physics II	4
Sub-Total Credits		20

Recommended Cognates

Item #	Title	Credits
PHYS 221	General Physics with Calculus I	1
PHYS 222	General Physics with Calculus II	1
RELT 419	Philosophy of Science	3
Sub-Total Credits		5
Total credits for degree:		82

B.S. Chemistry

Program: Chemistry and Physics

Type: B.S.

Required Courses

Item #	Title	Credits
CHEM 111	General Chemistry I	4
CHEM 112	General Chemistry II	4
CHEM 201	Research Methods in the Physical Sciences	1
CHEM 221	Modern Analytical Chemistry	4

CHEM 231	Organic Chemistry I	4
CHEM 232	Organic Chemistry II	4
CHEM 341	Physical Chemistry I	4
CHEM 342	Physical Chemistry II	4
CHEM 431	Biochemistry I	3
CHEM 432	Biochemistry I Lab	1
CHEM 462	Inorganic Chemistry	3
CHEM 475	Research Methods in Chemistry	4
	BS CHEM Electives upper division	4
Sub-Total Credits		44

Required Cognates

Item #	Title	Credits
CSIS 110	Principles of Computer Programming I	3
MATH 181	Calculus I	4
MATH 182	Calculus II	4
MATH 283	Calculus III	4
PHYS 121	General Physics I	4
PHYS 122	General Physics II	4
Sub-Total Credits		23

Recommended Cognates

Item #	Title	Credits
MATH 321	Differential Equations	3
PHYS 221	General Physics with Calculus I	1
PHYS 222	General Physics with Calculus II	1
	Intermediate foreign language	6
Sub-Total Credits		11
Total credits for degree:		78

B.S. Physical Science with Chemistry Emphasis Secondary Teaching Area

Program: Chemistry and Physics

Type: B.S.

B.S. Physical Science with Chemistry Emphasis Secondary Teaching Area

Teaching Certification Program

The following Physical Science major is for teaching certification only. Requirements for certification are listed in the Education section of this *Bulletin*.

You must make formal application for admittance to the Teacher Education Program. Applications are available at the Education Department Office.

Item #	Title	Credits
CHEM 111	General Chemistry I	4
CHEM 112	General Chemistry II	4
CHEM 201	Research Methods in the Physical Sciences	1
CHEM 231	Organic Chemistry I	4
CHEM 232	Organic Chemistry II	4
CHEM 341	Physical Chemistry I	4
CHEM 431	Biochemistry I	3
CHEM 432	Biochemistry I Lab	1
CHEM 462	Inorganic Chemistry	3
CHEM 475	Research Methods in Chemistry	4
PHYS 112	Introductory Astronomy	4
PHYS 121	General Physics I	4
PHYS 122	General Physics II	4
PHYS 221	General Physics with Calculus I	1
PHYS 222	General Physics with Calculus II	1
	CHEM Minor Electives 6 hours upper division	10
	Sub-Total Credits	56
	Total credits for degree:	56

Minor in Chemistry

Program: [Chemistry and Physics](#)

Type: Minor

Required Courses

Item #	Title	Credits
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CHEM 111	General Chemistry I	4
CHEM 112	General Chemistry II	4
	CHEM Minor Electives 6 hours upper division	10
	Sub-Total Credits	18
	Total credits for degree:	18

CHEM 105: Survey of Chemistry

An introduction to the fundamental principles of chemistry, plus additional introductory topics from organic and biochemistry with an emphasis on human metabolism. Not applicable to major, minor, or teaching sequence. Lab fee.

Credits: 4

Lab Hours: 3

Lecture Hours: 3

Prerequisites: Appropriate mathematics placement score or MATH 013 with a grade of C- or higher.

Program: [Chemistry and Physics](#)

Semester Offered: Fall

CHEM 111: General Chemistry I

This course develops basic topics such as atomic structure, periodicity, chemical equations, chemical bonding, solutions, nomenclature, and states of matter. Lab Fee.

Credits: 4

Lab Hours: 3

Lecture Hours: 3

Prerequisites: MATH 110 with a grade of C- or higher, or high school Algebra II with grade of B or higher or permission of chemistry faculty, or corequisite: MATH 121 or higher.

Program: [Chemistry and Physics](#)

Semester Offered: Fall

CHEM 112: General Chemistry II

A continuation of CHEM 111. Included are discussions of kinetics, acids and bases, equilibrium, electrochemistry, and introduction to nuclear and organic chemistry. Lab fee.

Credits: 4

Lab Hours: 3

Lecture Hours: 3

Prerequisites: CHEM 111 with a grade of C- or higher.

Program: [Chemistry and Physics](#)

Semester Offered: Spring

CHEM 201: Research Methods in the Physical Sciences

An introduction to the library research skills used in the physical sciences, especially chemistry. The use of primary and secondary sources including the use of on-line databases will be discussed as well as publication styles. Students will engage in activities to sharpen critical thinking. In this course, majors in the physical sciences begin the process of senior portfolio development.

Credits: 1

Prerequisites: ENGL 121 and PHYS 121, 122 or CHEM 111, 112

Program: [Chemistry and Physics](#)

Semester Offered: Spring

CHEM 221: Modern Analytical Chemistry

A course in which quantitative and instrumental techniques of chemical analysis are combined. Emphasis will be on developing analytical skills.

Credits: 4

Lab Hours: 3

Lecture Hours: 3

Prerequisites: CHEM 112 with grade of C- or higher

Program: [Chemistry and Physics](#)

Semester Offered: Fall, even years

CHEM 231: Organic Chemistry I

This course deals with the theory and applications of basic organic chemistry. Included is the study of alkanes, alkenes, alkynes, simple aromatics, alkyl halides, alcohols, ethers, and spectroscopic methods. Lab fee.

Credits: 4

Lab Hours: 3

Lecture Hours: 3

Prerequisites: CHEM 112 with a grade of C- or higher

Program: [Chemistry and Physics](#)

Semester Offered: Fall

CHEM 232: Organic Chemistry II

A continuation of the study of basic organic chemistry. Includes carboxylic acids, aldehydes, ketones, amines, heterocyclics, unsaturated carbonyl compounds, carbohydrates, phenols, glycols and epoxides. Lab fee.

Credits: 4

Lab Hours: 3

Lecture Hours: 3

Prerequisites: CHEM 231 with a grade of C- or higher

Program: [Chemistry and Physics](#)

Semester Offered: Spring

CHEM 298: Individual Study Topics

This course offers the lower division student opportunity for independent study under the direction of a faculty member. This study may involve research, laboratory, or library work. Content and methods of study must be arranged prior to registration. May be repeated for a total of 2 credits.

Credits: 1 - 2

Prerequisites: Permission of the department chair

Program: [Chemistry and Physics](#)

CHEM 299: Directed Group Study Topics

Provides academic departments an opportunity to offer courses in specialized or experimental areas, either lower or upper division, not listed in the undergraduate *Bulletin*. May be repeated for a total of 3 credits.

Credits: 1 - 3

Prerequisites: Approval by department chair

Program: [Chemistry and Physics](#)

CHEM 310: Environmental and Geological Chemistry

Chemistry of how geological and anthropogenic activities impact Earth's hydrosphere, continents, and atmosphere. . Lab fee. (Offered periodically)

Credits: 4

Lab Hours: 3

Lecture Hours: 3

Prerequisites: CHEM 112 or equivalent with a grade of C- or higher, MATH 181 or permission of instructor

Program: [Chemistry and Physics](#)

Semester Offered: Periodically

CHEM 341: Physical Chemistry I

Rigorous mathematical treatment of gas laws, physical states of matter, solutions, thermodynamics, equilibrium, chemical potential, electrochemistry, and an introduction to quantum mechanics. Lab fee.

Credits: 4

Lab Hours: 3

Lecture Hours: 3

Prerequisites: CHEM 112 or equivalent with a grade of C- or higher, MATH 181

Program: [Chemistry and Physics](#)

Semester Offered: Fall, odd years

CHEM 342: Physical Chemistry II

Further development of atomic and molecular quantum mechanics, spectroscopy, kinetics and reaction mechanisms, and statistical thermodynamics. Lab fee.

Credits: 4

Lab Hours: 3

Lecture Hours: 3

Prerequisites: CHEM 341 with a grade of C- or higher

Program: [Chemistry and Physics](#)

Semester Offered: Spring even years

CHEM 421: Modern Analytical Instrumentation

A course in modern analytical instrumentation, including electroanalytical, spectroscopic, separations, and kinetic methods. Application of spreadsheet and computer simulation software. Laboratory emphasis. Lab fee. (Offered periodically)

Credits: 4
Lab Hours: 6
Lecture Hours: 2
Prerequisites: CHEM 221 with a grade of C- or higher or CHEM 231 with a grade of C- or higher
Program: [Chemistry and Physics](#)
Semester Offered: Periodically

CHEM 431: Biochemistry I

A course in the molecular logic of life; in particular the molecular structure, nomenclature, properties, and functions of carbohydrates, lipids, proteins, and nucleic acids. Properties and mechanisms of enzymes, vitamins, and co-enzymes, biological membrane structure and function, and introduction to bioenergetics.

Credits: 3
Lecture Hours: 3
Prerequisites: CHEM 232 with a grade of C- or higher.
Co-Requisites: Corequisite: CHEM 432 (required for chemistry and biochemistry majors).
Program: [Chemistry and Physics](#)
Semester Offered: Fall

CHEM 432: Biochemistry I Lab

This course is designed to accompany CHEM 431. Experiments demonstrate the theoretical principles discussed in CHEM 431, including structure, pH, and molecular interactions of carbohydrates, lipids, proteins, enzymes, nucleic acids, and the specific methods of analysis associated with these molecules. Lab fee.

Credits: 1
Program: [Chemistry and Physics](#)
Semester Offered: Fall

CHEM 433: Biochemistry II

This course focuses on the metabolic pathways of biomolecules, accompanied by bioenergetic requirements, regulatory mechanisms and flow of genetic information. Includes photosynthesis, metabolism of amino acids, fatty acids, lipids, nucleic acids and proteins, and application of recombinant DNA. Intended for students taking chemistry as their major or minor. Also suitable for biology majors with a strong chemistry background and pre-professionals.

Credits: 3
Lecture Hours: 3
Prerequisites: CHEM 431 with a grade of C- or higher.
Co-Requisites: Corequisite: CHEM 434 (required for chemistry and biochemistry majors).
Program: [Chemistry and Physics](#)
Semester Offered: Spring

CHEM 434: Biochemistry II Lab

This course is designed to accompany CHEM 433. Emphasis will be important experimental techniques not covered in CHEM 432, including electrophoresis, adsorption chromatography, thin-layer chromatography and DNA analysis. Lab fee .

Credits: 1
Lab Hours: 3
Program: [Chemistry and Physics](#)
Semester Offered: Spring

CHEM 462: Inorganic Chemistry

A course including a study of the elements and their periodic relationships, acid-base theories, current bonding theories, coordination compounds, and other selected topics. (Offered periodically)

Credits: 3
Lecture Hours: 3
Prerequisites: CHEM 341 or CHEM 112 with permission of instructor.
Program: [Chemistry and Physics](#)
Semester Offered: Periodically

CHEM 475: Research Methods in Chemistry

This course is a capstone course, designed to involve the chemistry major in the process of research, including literature searching, formation of hypotheses, and experimental design. Preparation and presentation of report, completion of portfolio. Lab fee. (Offered periodically)

Credits: 4
Lab Hours: 6
Lecture Hours: 2
Prerequisites: Either CHEM 221 or CHEM 341 with a grade of C- or higher, CHEM 232 with a grade of C- or higher, and permission of the chemistry faculty.
Program: [Chemistry and Physics](#)
Semester Offered: Periodically

CHEM 498: Individual Study Topics

The subject of study is selected by conference between the student and the chemistry faculty, and will consist mainly of independent study and/or laboratory work summarized by a comprehensive report. Content and method of study must be arranged prior to registration. May be repeated for a total of 3 credits.

Credits: 1 - 3
Prerequisites: Permission of the department chair
Program: [Chemistry and Physics](#)

CHEM 499: Directed Group Study Topics

Provides academic departments an opportunity to offer courses in specialized or experimental areas, either lower or upper division, not listed in the undergraduate *Bulletin*. Student may be allowed to repeat the course for credit.

Credits: 1 - 3

Prerequisites: Approval by department chair

Program: [Chemistry and Physics](#)

ENGR 111: Introduction to Engineering and Design

Introduction to the profession of engineering, computer based engineering, calculation tools, analysis of team dynamics, the design process, systems engineering, and principles of project management. This is taught via distance learning from Walla Walla University, Edward F. Cross School of Engineering.

Credits: 2

Program: [Chemistry and Physics](#)

Semester Offered: Fall

ENGR 115: Introduction to CAD

Introduction to computer aided design, and computer aided engineering (CAD and CAE). Includes coverage of hand sketching, drafting standards, pictorial representations, and principles of descriptive geometry. Covers both 2- and 3-D CAD, discipline specific computer applications will be represented as available. Taught during the first 10 weeks of the semester live via webcast from Walla Walla University, Edward F. Cross School of Engineering.

Credits: 1

Program: [Chemistry and Physics](#)

Semester Offered: Spring

ENGR 116: CAD Project

A full-scale project emphasizing teamwork where possible, and written and oral engineering communications. The project is introduced in ENGR 111 and builds on the skills developed in ENGR 115. Taught during the last five weeks of the semester through Walla Walla University, Edward F. Cross School of Engineering.

Credits: 1

Program: [Chemistry and Physics](#)

Semester Offered: Spring

PHYS 101: Introductory Physics

A laboratory science course for the student with no previous background in physics. A conceptual, rather than mathematical, approach is emphasized, though some arithmetic calculations are required. Topics include mechanics, heat, sound, electromagnetism, light, and modern physics.

Credits: 4

Lab Hours: 3

Lecture Hours: 3

Prerequisites: SAT mathematics score of at least 530 or an ACT mathematics score of at least 21 or MATH 013 with a grade of C- or higher.

Program: [Chemistry and Physics](#)

Semester Offered: Fall

PHYS 112: Introductory Astronomy

An introductory study of the solar system; stellar structure and evolution; star clusters, galaxies, quasars, the large scale structure of the universe, and cosmology. A conceptual, rather than mathematical, approach is emphasized, though some arithmetic calculations are required.

Credits: 4

Lab Hours: 3

Lecture Hours: 3

Prerequisites: SAT mathematics score of at least 530 or an ACT mathematics score of at least 21 or MATH 013 with a grade of C- or higher.

Program: [Chemistry and Physics](#)

Semester Offered: Periodically

PHYS 114: Physical Science

An introductory science course covering the fundamentals of physics, chemistry, astronomy, and each science that will focus on hands-on activities and real-life applications. The course covers fundamental aspects of physical science as required by the Texas Department of Education.

Credits: 4

Lab Hours: 3

Lecture Hours: 3

Prerequisites: SAT mathematics score of at least 530 or an ACT mathematics score of at least 21 or MATH 013 with a grade of C- or higher.

Program: [Chemistry and Physics](#)

Semester Offered: Spring

PHYS 121: General Physics I

An introduction to motion in one dimension, vectors in 2 and 3 dimensions, the laws of motion, work and energy, momentum and collisions, uniform circular motion, gravity, rotational equilibria and dynamics involving torque and angular momentum, solids and fluids, thermal physics and heat, thermodynamical laws, vibrations, waves, and sound. Math level is algebra and trigonometry.

Credits: 4

Lab Hours: 3

Lecture Hours: 3

Prerequisites: **MATH 121**

Program: **Chemistry and Physics**

Semester Offered: Fall

PHYS 122: General Physics II

Topics include: electric force and electric field, electric potential, capacitance, resistance and resistivity, direct and alternating currents, Kirchhoff's Rules, Ohm's Law, magnetism and Ampere's Law, Faraday's Law, electromagnetic waves, reflection and refraction of light, mirrors and lenses, relativity, quantum physics, atomic and nuclear physics, and elementary particles.

Credits: 4

Lab Hours: 3

Lecture Hours: 3

Prerequisites: PHYS 121 with a grade of C- or higher

Continuation of PHYS 121.

Program: **Chemistry and Physics**

Semester Offered: Spring

PHYS 221: General Physics with Calculus I

A one hour addition to the topics of PHYS 121 where calculus is thoroughly used. A student taking PHYS 121 and PHYS 221 will have the equivalent of a 4-hour university course in calculus-based general physics (topics as in PHYS 121).

Credits: 1

Prerequisites: **MATH 181**

Program: **Chemistry and Physics**

Semester Offered: Periodically Fall

PHYS 222: General Physics with Calculus II

A one hour addition to the topics of PHYS 122 where calculus is thoroughly used. A student taking PHYS 122 and PHYS 222 will have the equivalent of a 4-hour university course in calculus-based general physics (topics as in PHYS 122).

Credits: 1

Prerequisites: **MATH 181**

Program: **Chemistry and Physics**

Semester Offered: Periodically Spring

Communication

Faculty/Staff

Michael Agee, Chair; Kyle Portbury, Glen Robinson

Adjunct: Chris Combest, David Pollock, Landi Whitefield, John Williams

Mission

The mission of Southwestern Adventist University's Department of Communication is to prepare students to be effective Christian communicators. This includes developing skills in personal interaction, writing, speaking, creating media content, and managing the elements of communication technology. In addition, knowledge comes from learning about new forms of interaction in the areas of radio, television, film, journalism, advertising, public relations, and the Internet.

Aims of the Department

The aims of Southwestern Adventist University's Department of Communication are to:

- Develop in students the essential skills necessary to enter careers in the communication field of their choice or to enter graduate school.
- Prepare students for executive responsibilities at some point in their careers.
- Establish a connection between communication and a relationship with Jesus Christ.
- Instill in students a desire for long-term growth in communication.

Student Learning Objectives

Upon completion of coursework within the Communication Department, majors should be able to:

- Describe the Communication discipline and its central questions
- Employ communication theories, perspectives, principles, and concepts
- Create messages appropriate to the audience, purpose, and context
- Critically analyze messages
- Demonstrate the ability to accomplish communicative goals, while applying ethical communication principles and practices

Facilities and Internships

Communication majors at Southwestern Adventist University choose one of the department's three emphases

areas of study: Advertising & Public Relations (ADPR), Journalism (JOUR), or Radio-TV-Film (RTVF). The department also offers minors in each emphasis, as well as Communication and Speech. Many communication students acquire valuable training and experience at the following facilities on the campus:

- 88.3 The Journey, KJRN
- The Studios at Southwestern and KGSW TV 18.1
- The Communication Mac Lab

Our Communication Department encourages all upper division majors to complete an off-campus internship in their major emphasis. Even before graduation, and sometimes as a direct

result of communication internship positions, many of our majors are hired by these firms, and communication alumni from Southwestern who have continued their education through graduate school have done so very successfully.

Department Policies

Withdrawing from or Repeating Courses

Communication majors or minors may withdraw from or repeat a course in their area of emphasis or minor only one time.

Multiple Communication Majors/Minors

A student cannot earn either two communication majors or both a communication major and minor in different emphasis areas. This is because there are similar core course requirements and because career preparation in two academic fields is preferable to only one.

Communication Competencies

Competence in both oral and written communication is required for progress in each of the emphases and minors offered by the department. Competence in oral communication is considered to be the completion of required Speech performance courses with a grade of C-or above.

Writing is a major component of upper division communication courses. The department requires all students to have passed ENGL 220 Research Writing or its equivalent before enrolling in any upper division course.

Teaching Certification Program

The student must make formal application for admittance to the Teacher Education Program. Applications are available at the Education Department office.

Communication, B.A. or B.S., emphasis in Journalism - Secondary Teaching Area

The student must meet the requirements for a B.A. or B.S. degree in Communication - Journalism Emphasis.

Communication Degrees

B.A. Communication Advertising & PR emphasis

Program: Communication

Type: B.A.

Item #	Title	Credits
COMM 110	Communication Media	3
	COMM 115 or COMM 137	3
COMM 127	Photo and Graphic Editing	3
COMM 224	Photography	3
COMM 241	Public Relations	3
COMM 261	Reporting I	3
	COMM 335 or COMM 343	3
COMM 351	Advertising	3
	COMM 431 or COMM 451	3
COMM 442	Applied Advertising and Public Relations	3
COMM 481	Senior Portfolio Seminar	1
Sub-Total Credits		31
Total credits for degree:		31

B.A. Communication Radio-TV-Film emphasis

Program: Communication

Type: B.A.

Item #	Title	Credits
COMM 110	Communication Media	3
COMM 112	Announcing	3
	COMM 125 or COMM 224	3
COMM 137	Media Techniques	3
COMM 237	Video Production I	3
COMM 261	Reporting I	3

	COMM 335 or COMM 343	3
COMM 355	Understanding Film	3
COMM 361	Investigative Reporting	3
	COMM 431 or COMM 451	3
COMM 481	Senior Portfolio Seminar	1
Sub-Total Credits		31
Total credits for degree:		31

B.A. Communication Journalism emphasis

Program: Communication

Type: B.A.

Item #	Title	Credits
COMM 110	Communication Media	3
	COMM 112 or COMM 127	3
COMM 137	Media Techniques	3
COMM 224	Photography	3
COMM 261	Reporting I	3
	COMM 335 or COMM 343	3
COMM 361	Investigative Reporting	3
COMM 383	Editorial Techniques	3
COMM 422	Writing for Publication	3
	COMM 431 or COMM 451	3
COMM 481	Senior Portfolio Seminar	1
Sub-Total Credits		31
Total credits for degree:		31

B.S. Communication Advertising & PR emphasis

Program: Communication

Type: B.A.

Item #	Title	Credits
COMM 110	Communication Media	3
COMM 115	Discussion Techniques	3
COMM 127	Photo and Graphic Editing	3
COMM 137	Media Techniques	3
COMM 224	Photography	3

COMM 233	Interpersonal Communication	3
COMM 241	Public Relations	3
COMM 261	Reporting I	3
COMM 335	Persuasion	3
COMM 343	Visual Communication	3
COMM 351	Advertising	3
COMM 361	Investigative Reporting	3
COMM 381	Development	3
COMM 431	Media Law and Ethics	3
COMM 442	Applied Advertising and Public Relations	3
COMM 451	Communication Theory	3
COMM 481	Senior Portfolio Seminar	1
Sub-Total Credits		49
Total credits for degree:		49

B.S. Communication Journalism emphasis

Program: Communication

Type: B.S.

Item #	Title	Credits
COMM 110	Communication Media	3
COMM 112	Announcing	3
COMM 127	Photo and Graphic Editing	3
COMM 137	Media Techniques	3
COMM 224	Photography	3
COMM 237	Video Production I	3
COMM 241	Public Relations	3
COMM 261	Reporting I	3
COMM 335	Persuasion	3
COMM 343	Visual Communication	3
COMM 361	Investigative Reporting	3
COMM 383	Editorial Techniques	3
COMM 422	Writing for Publication	3
COMM 431	Media Law and Ethics	3
COMM 451	Communication Theory	3

COMM 461	Investigative Reporting	3
COMM 481	Senior Portfolio Seminar	1
Sub-Total Credits		49
Total credits for degree:		49

B.S. Communication Radio-TV-Film emphasis

Program: Communication

Type: B.S.

Item #	Title	Credits
COMM 110	Communication Media	3
COMM 112	Announcing	3
COMM 125	Audio Production	3
COMM 127	Photo and Graphic Editing	3
COMM 137	Media Techniques	3
COMM 224	Photography	3
COMM 237	Video Production I	3
COMM 261	Reporting I	3
COMM 332	Media Management	3
COMM 335	Persuasion	3
	COMM 337 or COMM 437	3
COMM 343	Visual Communication	3
COMM 355	Understanding Film	3
COMM 361	Investigative Reporting	3
COMM 431	Media Law and Ethics	3
COMM 451	Communication Theory	3
COMM 481	Senior Portfolio Seminar	1
Sub-Total Credits		49
Total credits for degree:		49

Minor in Advertising & PR

Program: Communication

Type: Minor

Item #	Title	Credits
COMM 110	Communication Media	3
COMM 137	Media Techniques	3

COMM 241	Public Relations	3
COMM 261	Reporting I	3
COMM 351	Advertising	3
COMM 442	Applied Advertising and Public Relations	3
Sub-Total Credits		18
Total credits for degree:		18

Minor in Communication

Program: Communication

Type: Minor

Item #	Title	Credits
COMM 110	Communication Media	3
COMM 137	Media Techniques	3
COMM 261	Reporting I	3
COMM 335	Persuasion	3
COMM 343	Visual Communication	3
COMM 451	Communication Theory	3
Sub-Total Credits		18
Total credits for degree:		18

Minor in Journalism

Program: Communication

Type: Minor

Item #	Title	Credits
COMM 110	Communication Media	3
COMM 137	Media Techniques	3
COMM 224	Photography	3
COMM 261	Reporting I	3
COMM 361	Investigative Reporting	3
COMM 422	Writing for Publication	3
Sub-Total Credits		18
Total credits for degree:		18

Minor in Radio-TV-Film

Program: Communication

Type: Minor

Item #	Title	Credits
COMM 110	Communication Media	3
COMM 137	Media Techniques	3
COMM 224	Photography	3
COMM 237	Video Production I	3
COMM 332	Media Management	3
COMM 451	Communication Theory	3
Sub-Total Credits		18
Total credits for degree:		18

Minor in Speech

Program: Communication

Type: Minor

Item #	Title	Credits
COMM 111	Speech	3
COMM 113	Oral Interpretation	3
COMM 115	Discussion Techniques	3
COMM 233	Interpersonal Communication	3
COMM 335	Persuasion	3
COMM 451	Communication Theory	3
Sub-Total Credits		18
Total credits for degree:		18

COMM 110: Communication Media

An historical and critical survey of the role played by communication media in shaping culture. Media examined include books; newspapers; magazines; film; radio, recording, and popular music; television, cable, and mobile video; video games; and the Internet and World Wide Web. Also examined are the supporting industries of public relations and advertising, as well as theories and effects of mass communication; media freedom, regulation, and ethics; and global media. Attention is given throughout to improving students' media literacy.

Credits: 3

Program: Communication

Semester Offered: Fall

COMM 111: Speech

This course covers the theories and practices of speech communication behavior in interpersonal, small group and public communication situations. The course is intended to enhance student understanding of and ability to use the basic skills of verbal and nonverbal communication, increase competence and confidence in delivery of presentations, enhanced critical thinking skills and enhanced interpersonal communication skills.

Credits: 3

Program: [Communication](#)

Semester Offered: Fall, Spring

COMM 112: Announcing

Introduces the student to contemporary announcing techniques, especially for radio and television, but also for other media. Emphasis is given to interpretation of copy, audio and video performance, voice analysis and improvement, interviewing techniques, pronunciation and articulation, and general speech improvement. Some attention is also given to ad-lib announcing, as well as news, music, and sports announcing.

Credits: 3

Program: [Communication](#)

Semester Offered: Spring

COMM 113: Oral Interpretation

Introduction to and experience in discovering the meaning in literature and effectively sharing this meaning through oral presentations. A variety of readings will be selected from scripture, poetry, prose, and drama.

Credits: 3

Program: [Communication](#)

Semester Offered: Spring odd years

COMM 115: Discussion Techniques

A study of the democratic methods used to solve problems and conduct business in various kinds of group organizations. Includes a number of traditional face-to-face group activities as well as individual presentations.

Credits: 3

Program: [Communication](#)

Semester Offered: Spring even years

COMM 125: Audio Production

An introduction to recording and manipulating sound, this course includes segments on sound behavior, equipment and software used for recording and manipulating sounds for broadcast, video, and film; signal processing, editing, and mixing. Supplies fee.

Credits: 3

Program: [Communication](#)

Semester Offered: Fall

COMM 127: Photo and Graphic Editing

In this course, students will learn how to create and manipulate digital images captured from a camera, a scanner, or from scratch. Students will acquire the ability to manipulate and enhance digital images through the use of selection tools, image adjustments, filters, and blending modes. Supplies fee.

Credits: 3

Program: [Communication](#)

Semester Offered: Fall

COMM 137: Media Techniques

This course is an introduction to the storytelling, digital technologies and techniques applied to create contemporary media content across a range of platforms. Hands-on video and audio projects will expose students to the basic methods and procedures of creating content for digital media. An emphasis is placed on story development and its pre-production, production, postproduction and delivery methodologies used across the disciplines of film, television and radio. Supplies fee.

Credits: 3

Program: [Communication](#)

Semester Offered: Spring

COMM 224: Photography

Introduces the basic tools, materials, and techniques of digital photography. Assignments are designed to develop skill in camera operation, composition, and editing and printing the digital photograph. The student must furnish a digital camera capable of creating RAW format files. Supplies fee.

Credits: 3

Prerequisites: Permission of department

Program: [Communication](#)

Semester Offered: Spring

COMM 233: Interpersonal Communication

Cognitive and experiential learning about interpersonal relationships. Students acquire insights about themselves and how they relate to others. Includes a segment on online social networks.

Credits: 3

Program: [Communication](#)

Semester Offered: Spring odd years

COMM 237: Video Production I

This course builds on student's basic exposure in COMM 137 to story, camera and editing techniques used by film and television professionals across a range of platforms. Hands-on experience will provide learning opportunities in operating a camera, as well as using both lighting and audio equipment to tell their stories. Students will also learn to integrate this technical knowledge into key development, pre-production, production, postproduction and delivery methodologies used across the disciplines of film, television, new and emerging media. Supplies fee.

Credits: 3
Prerequisites: **COMM 137**
Program: **Communication**
Semester Offered: Spring

COMM 241: Public Relations

A course dealing with definitions, basic objectives, and concepts of public relations. Attention is given to the role of public relations, research for public relations, publics and target audiences, communication concepts and channels, campaigns, and the legal and ethical environment of public relations. (Also taught as MKTG 241.)

Credits: 3
Program: **Communication**
Semester Offered: Fall

COMM 261: Reporting I

This course teaches future communication professionals how to write and communicate confidently across multiple platforms. In addition to learning the basic reporting and interviewing skills needed for all media, students will learn how to repurpose broadcast and print news for the Internet. Students will also be introduced to the research skills used in the field of communication, and begin the process of senior portfolio development.

Credits: 3
Prerequisites: Prerequisite: ENGL 121 (grade C- or above).
Program: **Communication**
Semester Offered: Fall

COMM 298: Individual Study Topics

This course offers the lower-division student opportunity to pursue investigations in fields of special interest under the direction of the departmental staff. Content and method of study must be arranged prior to registration. May be repeated for a total of 2 credits.

Credits: 1 - 2
Prerequisites: Permission of department chair
Program: **Communication**

COMM 299: Directed Group Study Topics

Provides academic departments an opportunity to offer courses in specialized or experimental areas, either lower or upper division, not listed in the undergraduate *Bulletin*. May be repeated for a total of 3 credits.

Credits: 1 - 3
Prerequisites: Approval by department chair
Program: **Communication**

COMM 332: Media Management

An advanced study of the management of media organizations, this course includes segments on historical and contemporary management theory, ethics in management, financial and human resources, promotion and marketing, programming, and regulation.

Credits: 3
Program: **Communication**
Semester Offered: Fall, even years

COMM 333: Narrative Writing

The course focuses on the writing of narrative, specifically in the creation of novels and short stories, examining traditional and non-traditional plots, character development, dialogue, setting, and other literary techniques.(Also taught as ENGL 333)

Credits: 3
Program: **Communication**
Semester Offered: Spring even years

COMM 335: Persuasion

A study and practice of the principles and techniques involved in persuasion. Elements include the psychology of persuasion; the relation of persuasion to imaging, advertising, and propaganda; and the role of persuasion in a free society. Students will demonstrate what they have learned by applying it to a persuasive campaign project of their own making during the semester.

Credits: 3
Program: **Communication**
Semester Offered: Spring

COMM 337: Video Production II

This course will expose students to advanced storytelling, shooting and editing techniques, including multi-camera production. As a major component of the course, students will actively collaborate to develop, produce and deliver a serialized television production intended for online and VOD delivery platforms. Supplies fee.

Credits: 3
Prerequisites: COMM 237 or permission of instructor
Program: **Communication**
Semester Offered: Spring odd years

COMM 340: Drama Writing

This course focuses on writing for performance, which may include the creation of stage plays as well as screenplays. Students will coordinate with COMM 337 Video Production II students in the development of scripts for production during the semester. General concepts are included to provoke thought about writing on a much broader basis. This includes discussions on dialogue, characterization, conflict, action, and setting, as well as the differences in writing for screen versus stage. (Also taught as ENGL 340.)

Credits: 3

Prerequisites: ENGL 220

Program: Communication

Semester Offered: Spring odd years

COMM 343: Visual Communication

A study of visual rhetoric, specifically the relationship between images and the messages they convey. The course will survey images in all areas of modern mass communication, including advertising, public relations, journalism, graphic design, photography, motion pictures, television and video, and the World Wide Web.

Credits: 3

Program: Communication

Semester Offered: Fall

COMM 351: Advertising

This course studies the role of advertising in society, its impact on the economy, its function in business and marketing, and its communication aspects, including media applications. Attention is given to social, legal, and ethical considerations; the business of advertising; consumer behavior; and creative strategies and processes. (Also taught as MKTG 351.)

Credits: 3

Program: Communication

Semester Offered: Spring

COMM 355: Understanding Film

A study of film, including the medium's history and the development of cinema structure within social and cultural contexts. Elements include photography, mise en scène, movement, editing, sound, acting, drama, story, writing, ideology, and critique. Viewing and analysis of significant films in cinema history.

Credits: 3

Lab Hours: 1

Lecture Hours: 2

Program: Communication

Semester Offered: Spring, Even Years

COMM 361: Investigative Reporting

A continuation of COMM 261, this course teaches the student how to cover news stories in all situations and using multiple media. Study will include writing for today's journalism, preparing content for multiple platforms, the history of journalism, editing and cropping, and ethical and legal issues. The student will refine his or her ability to write and photograph the news story, using audio, video, web, print and other media. Supplies fee.

Credits: 3

Prerequisites: COMM 261

Program: Communication

Semester Offered: Spring

COMM 381: Development

A study of fundraising and the philanthropic tradition and its role in the successful operation of nonprofit organizations. Attention is given to the techniques of producing fundraising proposals and campaigns directed to individuals, foundations, corporations, and other philanthropic organizations.

Credits: 3

Program: Communication

Semester Offered: Fall, odd years

COMM 383: Editorial Techniques

This course emphasizes the principles and practices of copy preparation and editorial decision making. Elements include working with writers, a production staff, and deadlines, as well as headline writing, picture editing, writing photo captions, and editing copy for accuracy, newsworthiness, language effectiveness, legality, and good taste. Students will learn practical application through editorial responsibility for the Southwesterner, the campus news website.

Credits: 3

Prerequisites: COMM 361 or permission of instructor.

Program: Communication

Semester Offered: Fall, even years

COMM 422: Writing for Publication

A course dealing with newspaper and magazine features. Emphasis is placed on publishing articles in on- and off-campus publications. Extensive practice in writing various types of feature stories and in dealing with editors and deadlines.

Credits: 3

Prerequisites: COMM 361 or permission of instructor

Program: Communication

Semester Offered: Fall, odd years

COMM 431: Media Law and Ethics

A study of the major principles of media law and media-related ethical concerns. Emphasis is given to the most important court decisions and statutory enactments in communication law, including prior restraint, libel and slander, fair trial/free press conflicts, and the First Amendment. Attention is given to building a personal approach to ethics within the context of the individual's relationships both with supervisors and with the public.

Credits: 3

Program: [Communication](#)

Semester Offered: Spring even years

COMM 437: Film Production

This course builds on student's exposure in COMM 237 to story, camera and editing techniques used by film and television professionals across a range of platforms. Hands-on experience will provide advanced learning opportunities in operating a camera, as well as using both lighting and audio equipment to visually bring their stories to life. Students will also learn to integrate their technical knowledge into key development, pre-production, production, postproduction and delivery methodologies used across the disciplines of film and television, new and emerging media. Supplies fee.

Credits: 3

Prerequisites: COMM 237 or permission of instructor

Program: [Communication](#)

Semester Offered: Spring

COMM 442: Applied Advertising and Public Relations

This course uses team projects to teach the tools and techniques necessary to work in the fields of advertising and public relations. Advertising assignments may include, but are not limited to, image and identity, political advertising, jingles and slogans, campaigns for large and small companies, and demographic and psychographic research. Public relations assignments may include, but are not limited to, crisis management, special events, media relations, publications, and internal communications. Also taught as MKTG 442.

Credits: 3

Prerequisites: [COMM 241](#) [COMM 351](#)

Program: [Communication](#)

Semester Offered: Fall, odd years

COMM 451: Communication Theory

This course presents the theoretical bases of interpersonal communication, group and public communication, mass communication, and communication in cultural contexts. Attention is given to the nature of inquiry and theory as well as several topics in communication theory, including interpersonal messages, cognitive processing, relationship development and maintenance, influence, group decision making, organizational communication, public rhetoric, media and culture, media effects, and intercultural and gender communication. There are ethical elements throughout the course as well as discussion integrating and relating the communication theories covered.

Credits: 3

Program: [Communication](#)

Semester Offered: Spring odd years

COMM 461: Investigative Reporting

This capstone journalism class prepares the student for work as an investigative reporter or a serious magazine writer. The course focuses on the development of interviewing skills, learning to access police files, online research, access to data via the Freedom of Information Act, and collaborative team research. Writing is extensive.

Credits: 3

Prerequisites: [COMM 361](#)

Program: [Communication](#)

Semester Offered: Fall, even years

COMM 470: Film Internship

These internship courses offer the advanced student university credit for on-the-job, off-campus work in film, radio, television, journalism, public relations or advertising under the joint direction of departmental staff and a supervisor at the organization or business selected. Ideally, the internship will occur the summer between the student's junior and senior years. Eligible for IP grading.

Credits: 1 - 3

Prerequisites: Prerequisite: Permission of department chair and instructor

Program: [Communication](#)

COMM 471: Radio Internship

These internship courses offer the advanced student university credit for on-the-job, off-campus work in film, radio, television, journalism, public relations or advertising under the joint direction of departmental staff and a supervisor at the organization or business selected. Ideally, the internship will occur the summer between the student's junior and senior years. Eligible for IP grading.

Credits: 1 - 3

Prerequisites: Prerequisite: Permission of department chair and instructor

Program: [Communication](#)

COMM 472: Television Internship

These internship courses offer the advanced student university credit for on-the-job, off-campus work in film, radio, television, journalism, public relations or advertising under the joint direction of departmental staff and a supervisor at the organization or business selected. Ideally, the internship will occur the summer between the student's junior and senior years. Eligible for IP grading.

Credits: 1 - 3

Prerequisites: Prerequisite: Permission of department chair and instructor

Program: [Communication](#)

COMM 473: Journalism Internship

These internship courses offer the advanced student university credit for on-the-job, off-campus work in film, radio, television, journalism, public relations or advertising under the joint direction of departmental staff and a supervisor at the organization or business selected. Ideally, the internship will occur the summer between the student's junior and senior years. Eligible for IP grading.

Credits: 1 - 3

Prerequisites: Prerequisite: Permission of department chair and instructor

Program: [Communication](#)

COMM 474: Public Relations Internship

These internship courses offer the advanced student university credit for on-the-job, off-campus work in film, radio, television, journalism, public relations or advertising under the joint direction of departmental staff and a supervisor at the organization or business selected. Ideally, the internship will occur the summer between the student's junior and senior years. Eligible for IP grading.

Credits: 1 - 3

Prerequisites: Prerequisite: Permission of department chair and instructor

Program: [Communication](#)

COMM 475: Advertising Internship

These internship courses offer the advanced student university credit for on-the-job, off-campus work in film, radio, television, journalism, public relations or advertising under the joint direction of departmental staff and a supervisor at the organization or business selected. Ideally, the internship will occur the summer between the student's junior and senior years. Eligible for IP grading.

Credits: 1 - 3

Prerequisites: Prerequisite: Permission of department chair and instructor

Program: [Communication](#)

COMM 481: Senior Portfolio Seminar

In this course, communication majors will finalize the contents of their portfolios before graduation. Students will also complete their senior thesis in this course, pursuant to their specific capstone class. This course required of all graduating communication majors and will be taken in their senior year.

Credits: 1

Program: [Communication](#)

Semester Offered: Fall

COMM 498: Individual Study Topics

This course offers the advanced student opportunity to pursue investigations in fields of special interest under the direction of departmental staff. Content and method of study must be arranged prior to registration. May be repeated for a total of two credits.

Credits: 1 - 2

Prerequisites: Permission of department chair

Program: [Communication](#)

COMM 499: Directed Group Study Topics

Provides academic departments an opportunity to offer courses in specialized or experimental areas, either lower or upper division, not listed in the undergraduate *Bulletin*. Student may be allowed to repeat the course for credit.

Credits: 1 - 3

Prerequisites: Approval by department chair

Program: [Communication](#)

Computer Science

Faculty/Staff

Daryl D. Thomas, Chair; Miguel Espinosa, Judith F. Miles

Adjunct: Eder Marski

Aims of the Department

The primary mission of the Department of Computer Science is to prepare students for professional work in the field of computer science, within a Christian context. A secondary mission of the Department is to provide service courses in computer science to the University community at-large.

The Department of Computer Science offers both bachelor of science degree and associate of science degree programs. The Bachelor of Science in Computer Science is intended for students who wish to pursue careers in computer science, either in industry or in academia. The Associate of Science in Computer Science offers students the opportunity to earn a valuable credential midway to completion of a Bachelor of Science in Computer Science. The Department also offers a minor in Computer Science.

Computer Science Degrees

A.S. Computer Science

We strongly suggest that students seeking an Associate in Science in Computer Science or the Associate in Computer Science plan to take their computer science courses in the following sequence:

Associate in Science	
Freshman — Fall Semester	CSIS 110, CSIS 125
Freshman — Spring Semester	CSIS111, CSIS 225
Sophomore — Fall Semester	CSIS 201, CSIS 211, CSIS 245
Sophomore — Spring Semester	CSIS 215, CSIS 255

In addition to completing the courses below, students seeking the A.S. must pass Department-specified external certification examinations in the areas of security and networking in order to be awarded the degree.

Program: Computer Science

Type: A.S.

Required Courses

Item #	Title	Credits
CSIS 110	Principles of Computer Programming I	3
CSIS 111	Principles of Computer Programming II	3
CSIS 125	Discrete Structures I	3
CSIS 201	Information Literacy for CS Majors	1
CSIS 211	Data Structures and Algorithms	3
CSIS 215	Object-Oriented Programming in C++	3
CSIS 225	Discrete Structures II	3
CSIS 245	Introduction to Local Area Network Technology	4
CSIS 255	Issues and Practices in Information Security	3
Sub-Total Credits		26

Required Cognates:

Item #	Title	Credits
PHYS 121	General Physics I	4
COMM 115	Discussion Techniques	3
Sub-Total Credits		7
Total credits for degree:		33

B.S. Computer Science

In addition to the course requirements set forth below, each student seeking a B.S. in Computer Science must successfully develop and release a useful program under an open-source model.

We strongly suggest that students seeking the Bachelor of Science in Computer Science plan to take their computer science courses in the following sequence:

Bachelor of Science	
Freshman — Fall Semester	CSIS 110, CSIS 125

Freshman — Spring Semester	CSIS111, CSIS 225
Sophomore — Fall Semester	CSIS 201, CSIS 211, CSIS 245
Sophomore — Spring Semester	CSIS 215, CSIS 255
Junior — Fall Semester	CSIS 445, CSIS 450
Junior — Spring Semester	CSIS 360, CSIS 375, CSIS upper division elective
Senior — Fall Semester	CSIS 315, CSIS upper division elective
Senior — Spring Semester	CSIS 490, CSIS 405

All students pursuing majors or minors in this department should plan on enrolling in MATH 121 in the fall semester of their Freshman year.

Program: Computer Science

Type: B.S.

Required Courses

Item #	Title	Credits
CSIS 110	Principles of Computer Programming I	3
CSIS 111	Principles of Computer Programming II	3
CSIS 125	Discrete Structures I	3
CSIS 201	Information Literacy for CS Majors	1
CSIS 211	Data Structures and Algorithms	3
CSIS 215	Object-Oriented Programming in C++	3
CSIS 225	Discrete Structures II	3
CSIS 245	Introduction to Local Area Network Technology	4
CSIS 255	Issues and Practices in Information Security	3
CSIS 315	Application Development for Event-Driven GUI Applications	3
CSIS 360	Operating Systems	3
CSIS 375	Introduction to Robotic Systems	4
CSIS 405	Formal Languages and Automata	3

CSIS 445	Internetwork Architectures	3
CSIS 450	Principles of Database Design	3
CSIS 490	Software Engineering	3
	CSIS Electives Upper Division	6
Sub-Total Credits		54

Required Cognates

Item #	Title	Credits
PHYS 121	General Physics I	4
PHYS 122	General Physics II	4
MATH 121	Precalculus	3
MATH 181	Calculus I	4
MATH 141	Introduction to Probability and Statistics	3
COMM 115	Discussion Techniques	3
Sub-Total Credits		21
Total credits for degree:		75

Minor in Computer Science

Program: Computer Science

Type: Minor

Required Courses

Item #	Title	Credits
CSIS 110	Principles of Computer Programming I	3
CSIS 111	Principles of Computer Programming II	3
CSIS 125	Discrete Structures I	3
CSIS 211	Data Structures and Algorithms	3
CSIS 215	Object-Oriented Programming in C++	3
CSIS 225	Discrete Structures II	3
CSIS 245	Introduction to Local Area Network Technology	4
CSIS 315	Application Development for Event-Driven GUI Applications	3

Sub-Total Credits	25
Total credits for degree:	25

CSIS 102: Computer Literacy and Applications

An introduction to the use of microcomputers, oriented toward future microcomputer users, not computer specialists. Topics include history of the field, computer hardware, software, operating systems, the Internet, and information systems. Students will work with popular applications for business and personal use, including web browsers, word processors, spreadsheets, and databases.

Credits: 3
 Program: [Computer Science](#)
 Semester Offered: Fall, Spring

CSIS 104: Spreadsheet and Database Applications

A one-hour computer applications course focusing on developing spreadsheet and relational database skills. It will include a brief review of word processing, digital presentation techniques, and computer concepts. Students will use realistic examples that emphasize how databases and spreadsheets can be used to increase productivity.

Credits: 1
 Program: [Computer Science](#)
 Semester Offered: Fall, Spring

CSIS 106: Comprehensive Spreadsheets

This course is a comprehensive coverage of basic, and advanced spreadsheet software including, but not limited to, the set of skills on Microsoft's certification exams for Excel

Credits: 3
 Program: [Computer Science](#)
 Semester Offered: Spring

CSIS 110: Principles of Computer Programming I

Introduction to problem solving using computers. Topics include top-down design, algorithm development, information representation, and programming. Assumes a basic knowledge of PC operation.

Credits: 3
 Program: [Computer Science](#)
 Semester Offered: Fall

CSIS 111: Principles of Computer Programming II

A continuation of CSIS 110 with emphasis on elementary data structures and advanced techniques. Students will be introduced to C++.

Credits: 3
 Prerequisites: [CSIS 110](#)
 Program: [Computer Science](#)
 Semester Offered: Spring

CSIS 125: Discrete Structures I

An introduction to the basics of discrete mathematics as applied in computer science. Topics include elementary logic, propositional logic, predicate logic, proof techniques, sets, relations, functions, elementary number theory, and Boolean algebra.

Credits: 3
 Program: [Computer Science](#)
 Semester Offered: Fall

CSIS 201: Information Literacy for CS Majors

An introduction to the research methods, documentation techniques, and publication styles commonly used in the field of computer science. Specific topics to be covered will include: the software development process, trends in computer science research, the peer review process, quality evaluation of sources, IEEE publication guidelines, the IEEE style manual, and the portfolio development process.

Credits: 1
 Prerequisites: ENGL 121
 Program: [Computer Science](#)
 Semester Offered: Fall

CSIS 211: Data Structures and Algorithms

A continuation of CSIS 111's study of data structures, and a study of the time-complexity of algorithms. There will be an emphasis on choosing the appropriate storage arrangement and the appropriate algorithms to manipulate data, both in high-speed memory, on mass storage devices, or using a combination of the two.

Credits: 3
 Prerequisites: CSIS 111, CSIS 125
 Program: [Computer Science](#)
 Semester Offered: Fall

CSIS 215: Object-Oriented Programming in C++

A study of the strategic object-oriented approach to problem solving — analysis, design and coding — using the C++ language. There will be a focus on the use of classes to implement abstract data types, thus supporting the modern approach to loosely linked, modular code. The overloading of functions and operators, inheritance, and polymorphism will be studied as abstraction tools.

Credits: 3
 Prerequisites: CSIS 111 or Instructor's approval
 Program: [Computer Science](#)
 Semester Offered: Spring

CSIS 225: Discrete Structures II

A continuation of the study of discrete structures begun in CSIS 125. Topics include recurrence relations, graphs and trees, matrices, combinatorics, computational complexity, and elementary computability.

Credits: 3
Prerequisites: [CSIS 125](#)
Program: [Computer Science](#)
Semester Offered: Spring

CSIS 245: Introduction to Local Area Network Technology

A practical introduction to current LAN network technologies, with emphasis on Ethernet. Topics include: signal encoding, channel access/utilization, integration/configuration/ operation of hardware, cabling, protocols, and LAN operating systems.

Credits: 4
Prerequisites: [CSIS 111](#) [CSIS 225](#)
Program: [Computer Science](#)
Semester Offered: Fall

CSIS 255: Issues and Practices in Information Security

An examination of the issues to be considered and practices typically employed when implementing security measures to protect computing resources and data. Topics to be considered include basics of computation and networking, as well as securing communications channels, computer systems, and information resources.

Credits: 3
Prerequisites: CSIS 110 or permission of instructor
Program: [Computer Science](#)
Semester Offered: Spring

CSIS 298: Individual Study Topics

Designed for the student who wishes to do independent study or research. Content and method of study must be arranged prior to registration. May be repeated for a total of 6 credits.

Credits: 1 - 3
Prerequisites: Permission of Department Chair
Program: [Computer Science](#)

CSIS 315: Application Development for Event-Driven GUI Applications

An introduction to the event-driven programming model using a windowed graphical user interface. Emphasis will be on using available tools and libraries to speed the development of significant applications.

Credits: 3
Prerequisites: [CSIS 215](#)
Program: [Computer Science](#)
Semester Offered: Fall

CSIS 360: Operating Systems

A study of operating system organization, job control, I/O, and resource management. Emphasis will be placed on features of the Linux O/S.

Credits: 3
Prerequisites: [CSIS 211](#)
Program: [Computer Science](#)
Semester Offered: Spring

CSIS 370: Programming Languages

Comparative study of programming languages with emphasis on formal language specification and analysis, run-time behavior, and implementation.

Credits: 3
Prerequisites: [CSIS 211](#)
Program: [Computer Science](#)
Semester Offered: Spring

CSIS 375: Introduction to Robotic Systems

An overview of the field of robotics, with emphasis on autonomous mobile robotic systems. Topics include sensing, localization, mapping, navigation, obstacle avoidance, feedback-based control, human safety issues, and moral implications of robotic systems. Lecture and laboratory.

Credits: 4
Prerequisites: [CSIS 111](#)
Program: [Computer Science](#)
Semester Offered: Spring

CSIS 405: Formal Languages and Automata

A study of formal language theory, with emphasis on regular and context-free grammars. Topics include: language properties, the Chomsky Hierarchy, Finite State Machines, PDAs, Turing machines, uncomputability, and computational complexity.

Credits: 3
Prerequisites: [CSIS 225](#)
Program: [Computer Science](#)
Semester Offered: Spring

CSIS 445: Internetwork Architectures

An in-depth study of internetwork architectures. Topics include: protocols, switching, WAN routing, interconnectivity, virtual circuits, Client/Server based distributed applications, and distributed processing.

Credits: 3
Prerequisites: [CSIS 245](#)
Program: [Computer Science](#)
Semester Offered: Fall

CSIS 450: Principles of Database Design

Course covers design and implementation of databases with emphasis on structures and schemas, information retrieval, SQL, security, and integrity.

Credits: 3

Prerequisites: [CSIS 211](#)

Program: [Computer Science](#)

Semester Offered: Fall

CSIS 490: Software Engineering

A study of the management and implementation of programming projects. Topics include project management, scheduling and control, programming assignments and specifications, testing and documentation, system implementation, and evaluation. Students will be required to complete a significant team project involving both design and implementation.

Credits: 3

Prerequisites: [CSIS 315](#)

Program: [Computer Science](#)

Semester Offered: Spring

CSIS 492: Computer Science Internship

On-the-job supervised experience in a field of computer science related to the student's concentration area. Limited to senior majors. May be repeated for a total of 6 credits.

Credits: 1 - 3

Prerequisites: Approval by department chair

Program: [Computer Science](#)

CSIS 495: Special Topics Seminar

Covers topics of special interest such as new developments in the field of computer science, as well as occasional specialized topics such as artificial intelligence, computer graphics, etc. May be repeated for a total of 6 credits.

Credits: 1 - 3

Prerequisites: Approval by department chair

Program: [Computer Science](#)

CSIS 498: Individual Study Topics

Designed for the student who wishes to do independent study or research. Content and method of study must be arranged prior to registration. May be repeated for a total of 6 credits.

Credits: 1 - 3

Prerequisites: Approval by Department Chair

Program: [Computer Science](#)

Education

Faculty/Staff

Donna Berkner, Chair; Michael England, Program Director and Certification Officer; Cheryl The

Adjunct: Carol Campbell

Mission

The Education Department of Southwestern Adventist University directly addresses the mission to which the University is committed by preparing individuals in shaping minds, cultivating hearts, and promoting service. The program incorporates a broad liberal arts education as a basis for the more in-depth focus on academic teaching specializations, field based experience, and pedagogy associated with the teaching and learning process. The program prepares individuals for a profession in which they can affect the lives of others in a Christian paradigm.

Education Degrees

B.S. Elementary Education

Program: Education

Type: B.S.

Professional Development

Required for Elementary Education Majors and for Secondary Education Certification

EDUC 154 not required for Physical Education majors.

Item #	Title	Credits
EDUC 254	Introduction to the Teaching Profession	3
EDUC 312	Educational Psychology	3
EDUC 326	Exceptional Children	3
EDUC 350	Educational Technology	3
EDUC 385	Philosophy of Education	3
EDUC 418	Legal Foundations of Education	3
EDUC 434	Classroom Assessment	3
EDUC 436	Classroom Management	3
	EDUC 475 or EDUC 485	6

EDUC 496	TExES Prep #2 - Pedagogy and Professionalism Responsibilities EC-12	0
PSYC 220	Human Growth and Development	3
Sub-Total Credits		33

Secondary Education Certification also requires:

Item #	Title	Credits
EDUC 322	Adolescent Psychology	3
EDUC 450	Teaching in the Secondary School	3

Elementary Education Majors Early Childhood - Grade 6

Item #	Title	Credits
ARTS 223	Arts/Crafts/Drama	3
EDUC 275	Multicultural Perspective	3
EDUC 310	Second Language Instruction and Assessment	3
EDUC 364	Kindergarten Materials and Methods	3
EDUC 375	Children's Literature and the Teaching of Reading	3
EDUC 382	Reading and Language Arts in the Elementary School	3
EDUC 386	Mathematics in the Elementary School	3
EDUC 414	Science and Health in the Elementary School	3
EDUC 419	Social Studies in the Elementary School	3
EDUC 424	Language Arts Essential Skills in the Elementary School	3
EDUC 460	Differentiated Instruction for the Elementary Classroom	3
EDUC 495	TExES Prep #1 - Core Content EC-6	0
KINT 244	Physical Education in the Elementary School	3
MUED 253	Music in the School	3
Sub-Total Credits		39
Total credits for degree:		72

EDUC 254: Introduction to the Teaching Profession

This course provides students with the opportunity to explore the field of teaching and reflect on their interest in education. Students will also examine current and historical roles, expectations, stereotypes, and characterizations that define teaching as a profession. Pre-service teachers will also engage in activities designed to sharpen critical thinking as well as acquaint themselves with current trends in the discipline of teaching. Pre-service teachers will begin the process of developing their e-portfolio. Includes field experience.

Credits: 3
Prerequisites: ENGL 121
Program: Education
Semester Offered: Spring

EDUC 275: Multicultural Perspective

A study of racial and ethnic groups in American society featuring an examination of their history, cultural heritage, contribution, struggles, and hopes for the future. Emphasis will be placed on a strength-based analysis of diverse groups. Focus will also address working with families in a classroom and counseling setting to best serve a multicultural society. Course content will guide students to be better informed and proactive in a multicultural society. (Also taught as PSYC 275)

Credits: 3
Program: Education
Semester Offered: Fall

EDUC 298: Individual Study Topics

A study in an area of interest under the direction of a staff member. This study may involve research, laboratory, or library work. Content and method of study must be arranged prior to registration. May be repeated for a total of 3 credits.

Credits: 1 - 2
Prerequisites: Admission to education preparation program, and approval of department chair
Program: Education
Semester Offered: Fall, Spring

EDUC 299: Directed Group Study Topics

Provides academic departments an opportunity to offer courses in specialized or experimental areas, either lower or upper division, not listed in the undergraduate *Bulletin*. May be repeated for a total of 3 credits.

Credits: 1 - 3
Prerequisites: Admission to Education Preparation Program, and approval of department chair.
Program: Education

EDUC 310: Second Language Instruction and Assessment

This course will address theoretical and practical aspects of second language instruction. A variety of teaching strategies will be presented, along with ways to incorporate national and state standards into lesson planning and classroom activities. Socio-cultural issues of language and language acquisition will be covered. Formal and informal assessment procedures will be introduced and reviewed. Current trends and issues will be discussed as they related to second language learners.

Credits: 3
Prerequisites: Admission to Education Preparation Program
Program: Education
Semester Offered: Fall

EDUC 312: Educational Psychology

A study of psychology as it relates to the learning processes and teaching methods. Principles and theories of learning are reviewed and individual differences and psychological concepts examined. Attention is given to exceptional learners. Includes field experience.

Credits: 3
Program: Education
Semester Offered: Fall

EDUC 322: Adolescent Psychology

An overview of the physical, mental and emotional phases of human development during the adolescent years. A study of the environmental and educational problems of the teenager. (Also taught as PSYC 322.)

Credits: 3
Program: Education
Semester Offered: Spring

EDUC 326: Exceptional Children

Provides pre-service teachers skills to include children of all abilities through appropriate arrangement of the environment. Study will include the characteristics, assessment, admission, review, and dismissal processes for special students requiring individualized or specialized programs. (Also taught as PSYC 326.) Also, included in this course is content reading strategies for secondary students including the 6 hours of Dyslexia training as required by Texas Administrative Code (TAC). (TAC RULE §228.35 (4))

Credits: 3
Prerequisites: Admission to education preparation program
Program: Education
Semester Offered: Spring

EDUC 350: Educational Technology

The focus of this course is examining and exploring technology integration strategies within K-12 networked computing environments. Content will include an examination of technology integration techniques using Web 2.0 applications and an in-depth study of methods for integrating the emerging technologies into specific content areas. This class is primarily project-based and will serve as checkpoint #1 for the education department e-portfolio. This course fulfills the Computer Competency requirement as specified in the Core Curriculum.

Credits: 3

Prerequisites: Admission to education preparation program

Program: [Education](#)

Semester Offered: Spring

EDUC 364: Kindergarten Materials and Methods

A course designed to acquaint the pre-service teachers with developmentally appropriate kindergarten curriculum, with emphasis on addressing each child's individual needs, abilities, interests, and cultural diversity. Includes topics such as language and literacy, puppets, dramatic play, art, sensory centers, music and movement, math, science, and social studies. Includes field experience. Implementation of developmentally appropriate practices.

Credits: 3

Prerequisites: Admission to education preparation program

Program: [Education](#)

Semester Offered: Fall

EDUC 375: Children's Literature and the Teaching of Reading

A course designed to acquaint the pre-service teachers with the many ways children benefit from literature at different times in their lives and appreciate what happens when a child is engaged by a book; to acquaint the student with the wealth of children's books that are available today and to enable them to make critical judgments about them; and to equip the student with a range of proven strategies to bring children together with books productively and pleasurably.

Credits: 3

Prerequisites: Admission to education preparation program

Program: [Education](#)

Semester Offered: Fall

EDUC 382: Reading and Language Arts in the Elementary School

A course designed to acquaint the pre-service teachers with the strategies to help ALL children become better readers through systematic, multimethod, multilevel instruction. The focus will be on essential components of a balanced literacy program (Guided Reading, Self-Selected Reading, and Working With Words), steps for implementation and management, and a variety of classroom activities. Includes field experience.

Credits: 3

Prerequisites: Admission to education preparation program

Program: [Education](#)

Semester Offered: Fall

EDUC 385: Philosophy of Education

This course is to prepare students as they gain a better understanding of their personal philosophy of education while preparing them to enter the classroom. Students will become acquainted with the history of Adventist education as they develop a critical and analytical approach to teaching including describing, analyzing and evaluating the influence of their philosophy in the Seventh-day Adventist classroom.

Credits: 3

Prerequisites: Admission to the education preparation program

Program: [Education](#)

EDUC 386: Mathematics in the Elementary School

A course designed to acquaint the pre-service teacher with concepts, methods, and available materials for effective mathematics instruction in the elementary school. Creative development of materials and lesson plans are emphasized. (This course does not apply to mathematics requirements.) Includes field experience.

Credits: 3

Prerequisites: Admission to education preparation program

Program: [Education](#)

Semester Offered: Fall

EDUC 414: Science and Health in the Elementary School

Pre-service candidates study how to design, implement, and evaluate standards-based science lessons including integrating content from the Texas TEKS for science and health into the science curriculum in meaningful ways. SDA ByDesign science curriculum will be addressed in the areas of healthy lifestyle choices and disease prevention. Students will have opportunities to develop teaching lessons and instruct local area elementary students in a laboratory setting. (This course does not apply to General Education science requirements.) Includes field experience.

Credits: 3
Prerequisites: Admission to Education Preparation Program
Program: [Education](#)
Semester Offered: Spring

EDUC 418: Legal Foundations of Education

A study of the legal aspects of education, with emphasis on the responsibilities, duties, and existing constitutional statutory rights of agencies and individuals, including the handicapped, and those from minority groups.

Credits: 3
Prerequisites: Admission to education preparation program
Program: [Education](#)
Semester Offered: Fall

EDUC 419: Social Studies in the Elementary School

An overview of the multicultural elementary school social studies program which incorporates proven teaching strategies such as models of teaching, cooperative learning, learning styles, and dimensions of learning. Students will have opportunity to develop thematic lesson plans in an active-learning environment. (This course does not apply to social studies requirements.) Includes field experience.

Credits: 3
Prerequisites: Admission to education preparation program
Program: [Education](#)
Semester Offered: Spring

EDUC 424: Language Arts Essential Skills in the Elementary School

Designed to acquaint the pre-service teacher with the principles that underlie the writing workshop and the major components that make it work.

Credits: 3
Prerequisites: Admission to education preparation program and EDUC 382 A course
Program: [Education](#)
Semester Offered: Spring

EDUC 433: Classroom Management for Secondary Teachers

This class helps develop systematic strategies and techniques for organizing and managing classroom activities. Class involves 2 hours of instruction and 1 hour of field experience that will be determined by instructor and is open only to secondary majors.

Credits: 2
Prerequisites: Admission to education preparation program and senior class status.
Program: [Education](#)
Semester Offered: Spring

EDUC 434: Classroom Assessment

This class prepares pre-service teacher to have a better understanding of classroom learning and assessment. Attention will be given to test construction and evaluation of test results.

Credits: 3
Prerequisites: Admission to education preparation program and senior class status
Program: [Education](#)
Semester Offered: Spring

EDUC 435: Classroom Management for the Secondary School

The purpose of this course is to help pre-service teachers develop systematic strategies and techniques for organizing and managing classroom activities and students. Research and practitioner-based models for classroom management will be reviewed and explored. Emphasis will be based upon real-world solutions that prepare pre-service teachers to be effective managers of their classrooms so that student learning is maximized.

Credits: 2
Prerequisites: Admission to education preparation program and senior class status
Program: [Education](#)
Semester Offered: Spring

EDUC 436: Classroom Management

The purpose of this course is to help pre-service teachers develop systematic strategies and techniques for organizing and managing classroom activities and students. Research and practitioner-based models for classroom management will be reviewed and explored. Emphasis will be based upon real-world solutions that prepare pre-service teachers to be effective managers of their classrooms so that student learning is maximized. Students pursuing secondary certification take EDUC 435.

Credits: 3
Prerequisites: Admission to education preparation program and senior class status
Program: [Education](#)
Semester Offered: Spring

EDUC 450: Teaching in the Secondary School

A study of the teacher's role, teaching techniques, classroom management and evaluation of learning experiences in the secondary school as these affect all students, including the those with special needs and minorities. This course also addresses reading in the content area. Includes field experience. Also, included in this course is content reading strategies for secondary students including the 6 hours of Dyslexia training as required by Texas Administrative Code (TAC). (TAC RULE §228.35 (4))

Credits: 3

Prerequisites: Admission to student teaching

Program: [Education](#)

Semester Offered: Fall, Spring

EDUC 460: Differentiated Instruction for the Elementary Classroom

This course focuses on preparing pre-service teachers for the inclusive classroom setting. Emphasis is placed on understanding how to better meet the needs of the many different learners in classrooms and schools. It provides opportunities to examine the characteristics of a differentiated classroom; how to frame instruction around concepts; and some techniques for differentiating content, process, and product. Special emphasis is given to collaboration, inclusion, exceptionality (including gifted and talented), multi-grade classrooms, individual education, transition plans, effective assessment and instructional procedures and student diversity.

Credits: 3

Prerequisites: Admission to the Education Preparation Program.

Program: [Education](#)

Semester Offered: Spring

EDUC 475: Directed Teaching in Elementary School

This course is open only to pre-service teachers seeking certification in Elementary Education. It requires full-day observations and student teaching in an approved elementary school for fourteen weeks under the direction of supervising teachers. Pass/no pass course. *Depends on certification emphasis.

Credits: 3 - 6

Prerequisites: Two-thirds of the professional education classes, academic specialization(s) and academic foundations, senior standing, and admission to student teaching

Program: [Education](#)

Semester Offered: Fall, Spring

EDUC 485: Directed Teaching in Secondary School

This course is open only to pre-service teachers seeking certification in Secondary Education. It requires full-day observations and student teaching in an approved secondary school for fourteen weeks under the direction of supervising teachers. Pass/no pass course.

Credits: 6

Prerequisites: Two-thirds of the professional education classes, academic specialization(s) and academic foundations, senior standing, and admission to student teaching.

Program: [Education](#)

Semester Offered: Fall, Spring

EDUC 495: TExES Prep #1 - Core Content EC-6

This course assists students in understanding the state and federal standards for their chosen certification areas. Students complete intensive reviews for their Pedagogy and Professionalism (PPR) certification exams. They must attend review classes and successfully complete PPR EC-12 practice exams with an 80% or higher as a prerequisite for permission to register with ETS to take the state exam.

Credits: 0

Program: [Education](#)

Semester Offered: Fall

EDUC 496: TExES Prep #2 - Pedagogy and Professionalism Responsibilities EC-12

This course assists students in understanding the state and federal standards for their chosen certification areas. Students complete intensive reviews for Core Content EC-6 certification exams. Students must attend review classes and successfully complete Core Content EC-6 practice exams with an 80% or higher as a prerequisite for permission to register with ETS to take the state exam.

Credits: 0

Program: [Education](#)

Semester Offered: Spring

EDUC 498: Individual Study Topics

A study in an area of interest under the direction of a staff member. This study may involve research, laboratory, or library work. Content and method of study must be arranged prior to registration. May be repeated for a total of 3 credits.

Credits: 1 - 2

Prerequisites: Admission to education preparation program, and approval of department chair

Program: [Education](#)

Semester Offered: Fall, Spring

EDUC 499: Directed Group Study

A study in an area of student interest under the direction of a staff member. This study may involve research, laboratory, or library work. Content and method of study must be arranged prior to registration. May be repeated for a total of 3 credits.

Credits: 2 - 3

Prerequisites: Admission to Education Preparation Program, and approval of department chair

Program: **Education**

Semester Offered: Fall, Spring

Education Certification

Education Certification Degrees

Certification, All Level Education

Program: Education Certification

Type: Cert

Option 1 Music

Item #	Title	Credits
CERT 253	Music in the Schools	3
CERT 312	Educational Psychology	2 - 3
CERT 326	Exceptional Children	2 - 3
CERT 434	Classroom Assessment	2 - 3
CERT 436	Classroom Management	2 - 3
CERT 450	Teaching Methods	2 - 3
CERT 485	Directed Teaching in the Secondary School	4 - 6
Sub-Total Credits		22

Option 2 Physical Education

Item #	Title	Credits
CERT 244	Physical Education	3
CERT 326	Exceptional Children	2 - 3
CERT 431	Physical Education Methods (K-12)	3
CERT 434	Classroom Assessment	2 - 3
CERT 436	Classroom Management	2 - 3
CERT 450	Teaching Methods	2 - 3
CERT 485	Directed Teaching in the Secondary School	4 - 6
Sub-Total Credits		22
Total credits for degree:		22

Elementary and Secondary Certifications

Program: Education Certification

Type: Cert

1. Elementary Education

Early Childhood - Grade 6

Item #	Title	Credits
CERT 312	Educational Psychology	2 - 3
CERT 326	Exceptional Children	2 - 3
CERT 382	Reading and Language Arts	2 - 3
CERT 413	Science Methods	2 - 3
CERT 424	Language Arts Essential Skills in the Elementary School	2
CERT 434	Classroom Assessment	2 - 3
CERT 436	Classroom Management	2 - 3
CERT 450	Teaching Methods	2 - 3
CERT 475	Directed Teaching in the Elementary School	4 - 6
Sub-Total Credits		22

Secondary Education

Option 1 English Language Art and Reading

Item #	Title	Credits
CERT 312	Educational Psychology	2 - 3
CERT 326	Exceptional Children	2 - 3
CERT 382	Reading and Language Arts	2 - 3
CERT 434	Classroom Assessment	2 - 3
CERT 436	Classroom Management	2 - 3
CERT 450	Teaching Methods	2 - 3
CERT 485	Directed Teaching in the Secondary School	4 - 6
Sub-Total Credits		22

Secondary Education

Option 2 Mathematics

Item #	Title	Credits
CERT 312	Educational Psychology	2 - 3
CERT 326	Exceptional Children	2 - 3
CERT 386	Mathematics Methods	2 - 3
CERT 434	Classroom Assessment	2 - 3
CERT 436	Classroom Management	2 - 3
CERT 450	Teaching Methods	2 - 3

CERT 485	Directed Teaching in the Secondary School	4 - 6
Sub-Total Credits		22

Secondary Education

Option 3 Social Studies

Item #	Title	Credits
CERT 312	Educational Psychology	2 - 3
CERT 326	Exceptional Children	2 - 3
CERT 419	Social Studies Methods	3
CERT 434	Classroom Assessment	2 - 3
CERT 436	Classroom Management	2 - 3
CERT 450	Teaching Methods	2 - 3
CERT 485	Directed Teaching in the Secondary School	4 - 6
Sub-Total Credits		22

Secondary Education

Option 4 Life Science

Item #	Title	Credits
CERT 312	Educational Psychology	2 - 3
CERT 326	Exceptional Children	2 - 3
CERT 413	Science Methods	2 - 3
CERT 434	Classroom Assessment	2 - 3
CERT 436	Classroom Management	2 - 3
CERT 450	Teaching Methods	2 - 3
CERT 485	Directed Teaching in the Secondary School	4 - 6
Sub-Total Credits		22
Total credits for degree:		22

CERT 244: Physical Education

The course provides the pre-service teacher with an extensive repertoire of teaching techniques in all level (EC – 12) physical education program. Emphasis is placed on health-related fitness, skill development, special events, and game development.

Credits: 3

Program: [Education Certification](#)

CERT 253: Music in the Schools

A course designed to prepare pre-service teachers to direct the music activities of children in all levels (EC – 12). The contents include fundamentals, appreciation, singing and rhythm activities.

Credits: 3

Program: [Education Certification](#)

CERT 312: Educational Psychology

A study of psychology as it relates to the learning processes and teaching methods. Principles and theories of learning are reviewed and individual differences and psychological concepts examined. Attention is given to exceptional learners. Includes field experience.

Credits: 2 - 3

Program: [Education Certification](#)

CERT 326: Exceptional Children

Provides pre-service teachers with skills to include children of all abilities through appropriate arrangement of the environment. Study will include the characteristics, assessment, admission, review and dismissal processes for special students requiring individualized or specialized programs.

Credits: 2 - 3

Program: [Education Certification](#)

CERT 382: Reading and Language Arts

A course designed to acquaint the pre-service teacher with the strategies to help all children become better readers through systematic, multi-method, multilevel instruction. The focus will be on essential components of a balanced literacy program (Guided Reading, Self-Selected Reading, and Working With Words), steps for implementation and management, and a variety of classroom activities. Includes field experience. Also, included in this course is content reading strategies for secondary students including the 6 hours of Dyslexia training as required by Texas Administrative Code (TAC). (TAC RULE §228.35 (4))

Credits: 2 - 3

Program: [Education Certification](#)

CERT 386: Mathematics Methods

A course designed to acquaint the pre-service teacher with concepts, methods, and available materials for effective mathematics instruction in the schools. Creative development of materials and lesson plans are emphasized. (This course does not apply to mathematics requirements.) Includes field experience.

Credits: 2 - 3

Program: [Education Certification](#)

CERT 413: Science Methods

A course designed to prepare pre-service teachers with practical classroom tested activities and ideas that are presented on planning, organizing, managing, and assessing an effective guided discovery science program. Students will have opportunities to develop teaching lessons. (This course does not apply to science requirements.)

Credits: 2 - 3

Program: [Education Certification](#)

CERT 419: Social Studies Methods

An overview of the social studies program that incorporates proven teaching strategies such as models of teaching, cooperative learning, learning styles, and dimensions of learning. Students will have opportunity to develop thematic lesson plans in an active-learning environment. (This course does not apply to social studies requirements.) Includes field experience.

Credits: 3

Program: [Education Certification](#)

CERT 424: Language Arts Essential Skills in the Elementary School

A course designed to acquaint the pre-service teacher with the principles that underlie the writing workshop and the major components that make it work.

Credits: 2

Program: [Education Certification](#)

CERT 431: Physical Education Methods (K-12)

The study of methods and techniques of teaching physical education in the elementary and secondary school, including individual as well as group activities; students are required to observe and demonstrate in class.

Credits: 3

Program: [Education Certification](#)

CERT 434: Classroom Assessment

This class prepares prospective teachers to have a better understanding of classroom learning and assessment. Attention will be given to test construction and evaluation of test results.

Credits: 2 - 3

Program: [Education Certification](#)

CERT 436: Classroom Management

The purpose of this course is to help pre-service teachers develop systematic strategies and techniques for organizing and managing classroom activities and students. Research and practitioner-based models for classroom management will be reviewed and explored. Emphasis will be based upon real-world solutions that prepare pre-service teachers to be effective managers of their classrooms so that student learning is maximized.

Credits: 2 - 3

Program: [Education Certification](#)

CERT 450: Teaching Methods

A study of the teacher's role, teaching techniques, classroom management and evaluation of learning experiences in schools as these affect all students, including the those with special needs and minorities. This course also addresses reading in the content area. Includes field experience. Also, included in this course is content reading strategies for secondary students including the 6 hours of Dyslexia training as required by Texas Administrative Code (TAC). (TAC RULE §228.35 (4).

Credits: 2 - 3

Program: [Education Certification](#)

CERT 475: Directed Teaching in the Elementary School

This course is open only to pre-service teachers seeking certification in Elementary Education. It requires full-day observations and student teaching in an approved elementary school for fourteen weeks under the direction of supervising teachers. Pass/no pass course.

Credits: 4 - 6

Prerequisites: Two-thirds of the professional education classes as outlined in the Alternative Certification Program
Program: [Education Certification](#)

CERT 485: Directed Teaching in the Secondary School

This course is open only to pre-service teachers seeking certification in Secondary Education. It requires full-day observations and student teaching in an approved secondary school for fourteen weeks under the direction of supervising teachers. Pass/no pass course.

Credits: 4 - 6

Prerequisites: Two-thirds of the professional education classes as outlined in the Alternative Certification Program
Program: [Education Certification](#)

English

Faculty/Staff

Renard Doneskey Chair; Kristin Denslow, Jayne Doneskey, Lindsey Gendke, Alison Torres Ramos

Aims of the Department

The English Department provides classes and support for English majors, English minors, and general studies students. In Freshman Composition and Research Writing all students at the university learn how to write coherent, well-organized essays. Students also take a literature class which requires writing on literary topics. The department helps English majors and minors understand and appreciate American, English, and world literature as well as linguistics and composition.

Students may elect courses which prepare them for careers as secondary English teachers, for graduate study in English, professional schools, or careers where ability to read closely, write effectively, and think critically is essential. A major in English is also an important asset to any student who wishes to specialize in several professional areas: law, medicine, business, public relations, publishing, library science, or government service.

Programs and General Information

ENGL 121 and 220 must be completed in sequence during the freshman and sophomore years before any other course in English can be taken.

English Degrees

B.A. English

Program: English

Type: B.A.

Required Courses

Item #	Title	Credits
ENGL 211	Approaches to Literary Research and Criticism	3
	ENGL 221 or ENGL 222	3
	ENGL 231 or ENGL 232	3
ENGL 342	Composition Theory and Practice	3

ENGL 414	History of the English Language	3
ENGL 458	Literary Analysis	3
ENGL 464	Advanced Grammar	3
	ENGL Electives	12
Sub-Total Credits		33

Required Cognate

Item #	Title	Credits
	COMM 111 or COMM 113	3
Sub-Total Credits		3
Total credits for degree:		36

B.A. English, Writing Emphasis

Program: English

Type: B.A.

Required Courses

Item #	Title	Credits
ENGL 211	Approaches to Literary Research and Criticism	3
	ENGL 231 or ENGL 232	3
ENGL 342	Composition Theory and Practice	3
ENGL 414	History of the English Language	3
ENGL 458	Literary Analysis	3
ENGL 464	Advanced Grammar	3
	ENGL Electives 1	3
	ENGL Electives 2	3
	ENGL Electives 3	9
Sub-Total Credits		33

Required Cognate:

Item #	Title	Credits
	COMM 111 or COMM 113	3
Sub-Total Credits		3
Total credits for degree:		36

Minor in English

Program: [English](#)

Type: Minor

Required Courses

Item #	Title	Credits
	ENGL 221 or ENGL 222	3
ENGL 224	Survey of English Literature	3
	ENGL 231 or ENGL 232	3
ENGL 464	Advanced Grammar	3
	ENGL Minor Electives	6
Sub-Total Credits		18
Total credits for degree:		18

Teaching Certification Program

Teaching Certification Program

The following English major and minors are for teaching certification only. Requirements for certification are listed in the Education section of this *Bulletin*.

You must make formal application for admittance to the Teacher Education Program. Applications are available at the Education Department office.

English, B.A. - Secondary Teaching Area

The student must meet the requirements for a B.A. degree in English.

Program: [English](#)

Type: Minor

English Minor - Secondary Certification

Item #	Title	Credits
	ENGL 221 or ENGL 222	3
ENGL 224	Survey of English Literature	3
ENGL 231	American Literature I	3
ENGL 342	Composition Theory and Practice	3
ENGL 464	Advanced Grammar	3
	ENGL Teaching Electives	9
Sub-Total Credits		24

Total credits for degree: 24

ENGL 021: Composition Review

Required of students whose SAT Critical Reading score is below 480 or whose ACT English score is below 17.

This course prepares students to take Freshman Composition. It focuses on writing fundamentals, such as the thesis, paragraph development, topic sentences, and transitions. Students will improve their grammatical skills as well. Substantial reading plays an important part of the course. **Credit will not apply toward graduation.**

Credits: 3

Program: [English](#)

Semester Offered: Fall, Spring

ENGL 121: Freshman Composition

This course focuses on individual writing processes, the production of quality expository and argumentative prose for a variety of purposes and audiences, and the introduction of information literacy skills. The course also emphasizes the development and use of critical thinking and reading skills essential for writing college-level papers.

Credits: 3

Prerequisites: Minimum SAT Critical Reading score of 480, a minimum ACT English score of 17, a minimum grade of C- in ENGL 021 and RDNG 021, or a score of 80 on the Michigan Test of Language Proficiency.

Program: [English](#)

Semester Offered: Fall, Spring

ENGL 211: Approaches to Literary Research and Criticism

The course introduces the concepts, applications, and research involved in literary criticism. The student will be introduced to literary genres and terms. Writing of literary criticism will be the main emphasis of the class, including the use of primary sources, the construction of an essay, and the correct documentation format as specified in the Modern Language Association Stylebook. English majors will begin the process of senior portfolio development.

Credits: 3

Prerequisites: [ENGL 121](#) [ENGL 220](#)

Program: [English](#)

Semester Offered: Spring

ENGL 220: Research Writing

This course focuses on elements of research and information literacy skills and writing using sources. Structured for students from a variety of academic disciplines, the course emphasizes the rhetorical principles of audience, purpose, genre, and practice with APA/MLA documentation. A major focus includes critically evaluating scholarly and popular resources, both hard copy and electronic.

Credits: 3

Prerequisites: ENGL 121 and sophomore status

Program: [English](#)

Semester Offered: Fall, Spring

ENGL 221: World Masterpieces: Ancient to Enlightenment

A study of Ancient, Medieval, and Renaissance literature read in translation. Some selections from English literature may be included.

Credits: 3

Prerequisites: [ENGL 121](#) [ENGL 220](#)

Program: [English](#)

Semester Offered: Fall

ENGL 222: World Masterpieces: Enlightenment to Contemporary

This course focuses on world masterpieces from the Enlightenment to modern literature.

Credits: 3

Prerequisites: [ENGL 121](#) [ENGL 220](#)

Program: [English](#)

Semester Offered: Spring

ENGL 224: Survey of English Literature

This literature course surveys major figures and trends in British literature from the Anglo-Saxon period into the 20th century.

Credits: 3

Prerequisites: [ENGL 121](#) [ENGL 220](#)

Program: [English](#)

Semester Offered: Spring

ENGL 231: American Literature I

A comprehensive study of the major writers and literary movements from 1609-1860, this course emphasizes Franklin, Hawthorne, Whitman, and Dickinson. The class focuses on the establishment of a distinctly American literature in both content and style.

Credits: 3

Prerequisites: [ENGL 121](#) [ENGL 220](#)

Program: [English](#)

Semester Offered: Spring

ENGL 232: American Literature II

This course focuses on the genres of poetry, drama, the short story, and the novel with an emphasis on the way Americans prefer individual freedom to society's accepted norms.

Credits: 3

Prerequisites: [ENGL 121](#) [ENGL 220](#)

Program: [English](#)

Semester Offered: Fall

ENGL 272: Introduction to Drama

This course is a study of representative plays, considering their literary history and dramatic staging.

Credits: 3

Program: [English](#)

Semester Offered: Fall

ENGL 278: Dramatic Production

Students will help to produce a play for the university, cultivating voice control, stage presence, character creation, and stage management. Course may be repeated. This course is for elective credit only.

Credits: 3

Prerequisites: Permission of the instructor

Program: [English](#)

ENGL 298: Individual Study Topics

This course offers the student opportunity to pursue investigations in fields of special interest under the direction of the departmental staff. Content and method of study must be arranged prior to registration, and it may be repeated for a total of 3 credits.

Credits: 1 - 3

Prerequisites: Approval by department chair

Program: [English](#)

ENGL 299: Directed Group Study Topics

Provides academic departments an opportunity to offer courses in specialized or experimental areas, either lower or upper division, not listed in the undergraduate *Bulletin*. May be repeated for a total of 3 credits.

Credits: 1 - 3

Prerequisites: Approval by department chair

Program: [English](#)

ENGL 322: Literary Perspectives

This class explores the nature of literature, often through its various genres, its differing historical and cultural contexts, and its various critical approaches. Content may concentrate on a specific author (Dante, Shakespeare), literary period (World War I), theme (the hero in literature), or emphasis (women's literature). Subject matter may vary, depending on the instructor and the sequence of the class. Students may repeat the course for credit if topic, emphasis, or genre differs from the previous class. Applies toward the general education literature requirement but not for the English major.

Credits: 3

Program: [English](#)

ENGL 333: Narrative Writing

The course focuses on the writing of narrative, examining traditional and non-traditional plots, character development, dialogue, setting, and other literary techniques.

Credits: 3

Prerequisites: [ENGL 220](#)

Program: [English](#)

Semester Offered: Spring, Even Years

ENGL 335: Essay and Opinion Writing

The course focuses on a variety of prose and students writing personal and persuasive essays, opinion pieces and editorials, autobiography and memory vignettes, and travel pieces.

Credits: 3

Prerequisites: [ENGL 121](#) [ENGL 220](#)

Program: [English](#)

Semester Offered: Spring odd years

ENGL 339: Poetry Writing

Students write poems and read the work of others, including fellow class members as well as established poets. The class works within a supportive workshop framework.

Credits: 3

Prerequisites: [ENGL 220](#)

Program: [English](#)

Semester Offered: Fall, odd years

ENGL 340: Drama Writing

This course focuses on writing for performance, which may include the creation of stage plays as well as screenplays. Students will coordinate with COMM 337 Video Production II students in the development of scripts for production during the semester. General concepts are included to provoke thought about writing on a much broader basis. This includes discussions on dialogue, characterization, conflict, action, and setting, as well as the variations in writing for screen versus stage. (Also taught as COMM 340.)

Credits: 3

Prerequisites: [ENGL 220](#)

Program: [English](#)

Semester Offered: Spring odd years

ENGL 342: Composition Theory and Practice

This course, open to all majors, emphasizes both the theoretical and practical aspects fundamental to successful writing and the teaching of writing. Students examine major contemporary writing theorists and their research or contributions to the field of composition, analyze theory in relation to their own writing, define principles of effective writing and the teaching of writing, and apply these principles in a tutoring experience. Thirty hours of mentored tutoring in The Write Spot serves as a lab experience for the course.

Credits: 3

Prerequisites: [ENGL 121](#) [ENGL 220](#)

Program: [English](#)

Semester Offered: Fall

ENGL 414: History of the English Language

This course is a linguistic study of the history of the English language through modern English. Study also will be given to American English and how it relates to our present culture.

Credits: 3

Prerequisites: [ENGL 121](#) [ENGL 220](#)

Program: [English](#)

Semester Offered: Fall, even years

ENGL 440: Senior Project

A student works closely with a professor to produce a major writing sample suitable for and prepared for publication.

Credits: 3

Prerequisites: [ENGL 220](#)

Program: [English](#)

Semester Offered: Fall, Spring

ENGL 451: Studies in Renaissance Literature

This course focuses on the historical and literary background of the English Renaissance from 1485-1616 with emphasis on the most significant writers of the period, including Shakespeare. This course may be taken for general education credit with permission of the instructor only.

Credits: 3

Prerequisites: ENGL 121 ENGL 220

Program: English

Semester Offered: Spring, Even Years

ENGL 452: Studies in 17th Century Literature

This course covers English prose and poetry from 1603-1660 with particular attention to the poetry of Jonson, Donne, and Herbert as well as a more detailed study of John Milton and his major poems. This course may be taken for general education credit with permission of the instructor only.

Credits: 3

Prerequisites: ENGL 121 ENGL 220

Program: English

Semester Offered: Fall, odd years

ENGL 453: Studies in 18th Century Literature

This course focuses on English poetry and prose from 1660-1800 with special attention to the major works of Dryden, Swift, and Pope. The course may be taken for general education credit with permission of the instructor only.

Credits: 3

Prerequisites: ENGL 121 ENGL 220

Program: English

Semester Offered: Fall, even years

ENGL 454: Studies in Medieval Literature

This course covers selected Old and Middle English texts (900-1400) with special emphasis on Anglo-Saxon language, Middle English, Chaucer, the Pearl Poet, and religious dissent in the fourteenth century. It may be taken for general education credit with permission of the instructor only.

Credits: 3

Prerequisites: ENGL 121 ENGL 220

Program: English

Semester Offered: Spring odd years

ENGL 455: Studies in Romantic Literature

This course covers representative English Romantic poetry and prose with special emphasis on Wordsworth, Coleridge, Shelley, Keats, and Byron. It may be taken for general education credit with permission of the instructor only.

Credits: 3

Prerequisites: ENGL 121 ENGL 220

Program: English

Semester Offered: Spring odd years

ENGL 456: Studies in Victorian Literature

This course is a study of British poetry, novels, essays, and plays from 1830-1900 with emphasis on Dickens, R. Browning, Hardy, and E. Bronte. The course may be taken for general education credit with permission of the instructor only.

Credits: 3

Prerequisites: ENGL 121 ENGL 220

Program: English

Semester Offered: Fall, odd years

ENGL 457: Studies in 20th Century Literature

This course is a study of the major trends and writers in English and American literature since 1900. It may be taken for general education credit with permission of the instructor only.

Credits: 3

Prerequisites: ENGL 121 ENGL 220

Program: English

Semester Offered: Spring even years

ENGL 458: Literary Analysis

This course examines literary theories and genres and their application to selected works of literature. It is designed as a capstone to the English major; taken during the student's senior year, it serves as the fourth-year writing class.

Credits: 3

Prerequisites: Completion of all lower-division English requirements.

Program: English

Semester Offered: Spring

ENGL 459: The American Classics

This course is a study of major texts or authors in American literature in the nineteenth and twentieth centuries with an emphasis on distinctive elements in American subject matter and style. This course may be taken for general education credit with permission of instructor only.

Credits: 3

Program: English

Semester Offered: Spring odd years

ENGL 464: Advanced Grammar

This course is primarily designed for prospective elementary and secondary teachers who will need the knowledge of and methods for teaching basic English grammar. Study also will be given to current theories and rules of grammar.

Credits: 3

Prerequisites: ENGL 121 ENGL 220

Program: English

Semester Offered: Fall

ENGL 498: Individual Study Topics

This course offers the advanced student opportunity to pursue investigations in fields of special interest under the direction of the departmental staff. Content and method of study must be arranged prior to registration, and it may be repeated for a total of 3 credits.

Credits: 1 - 3

Prerequisites: Approval by department chair

Program: English

ENGL 499: Directed Group Study Topics

Provides academic departments an opportunity to offer courses in specialized or experimental areas, either lower or upper division, not listed in the undergraduate *Bulletin*. Student may be allowed to repeat the course for credit.

Credits: 1 - 3

Prerequisites: Approval by department chair

Program: English

RDNG 011: Reading Review

Required of students whose SAT Critical Reading score is below 480 or whose ACT English score is below 17. This course is designed to help the student increase comprehension, reading rate, vocabulary, study skills, and critical literacy. The course enables students to meet reading requirements in other college-level courses. **Credit will not apply toward graduation.**

Credits: 3

Program: English

Semester Offered: Fall, Spring

Fire Science

Not accepting enrollments to this program.

Faculty/Staff

Paulino Santos, Chair; Chad Hutchinson

Adjunct: Wayne Baker, Brett Batla, Michael Jones

Program

Fire Science encompasses leadership and service to assist in the growing fire science segment of the economy. In the world of fire and emergency operations, knowledge of how to best respond quickly requires training that incorporates the changing conditions. The Fire Science program prepares students by teaching them the latest industry principles, theories, and best practices. Students learn fire safety, tactical operations, leadership and community fire outreach and response skills.

Student Learning Outcomes

The goals of the Fire Science program are to provide each student with the necessary knowledge, skills, and abilities to function as a Firefighter/EMT. Upon completion of this program, the student will be able to demonstrate:

- Subject matter proficiency
- A variety of Firefighter skills to meet State certification requirements
- A variety of EMT skills to meet State certification requirements
- Fire Inspector competencies needed for State certification
- Critical thinking in addressing discipline-based questions
- Familiarity with standards, expectations and ethics in the discipline

Fire Science Degrees

A.A.S. Fire Science

Continuation and Progression Policies

- The Department of Kinesiology reserves the right to require withdrawal of a Fire Science student from the

program or a Fire Science course who fails to demonstrate competency and/or displays inappropriate/unprofessional or unsafe behavior.

- Students must maintain a cumulative GPA of 2.5 to progress in Fire Science and to graduate. No grade lower than C- will be accepted in Fire Science courses. Students whose GPA falls below 2.5 at any time during the program must raise their GPA to 2.5 or better within the next semester to continue in the program. If the GPA remains below 2.5, the student will be permanently dropped from the program.
- Students are allowed only one repeat of one Fire Science course.
- Fire Science courses dropped within one (1) week after the midterm date on the academic calendar will not count as a completed course. A Fire Science course that is dropped after that time will be treated as a completed Fire Science course.
- Students who fail a course may progress only with permission of the Kinesiology Department.
- All Fire Science courses are to be completed within a three-year time frame.
- Students cannot take the Texas Fire Certification exam until all degree requirements have been met.

Termination Policy

The following situations or conditions will result in termination from the fire science program:

- Unsafe, unethical, or unprofessional fire science practice
- GPA less than 2.5 for two consecutive semesters
- Unresolved issues with the drug screen and background checks

Readmission Policy

Readmission is possible for Fire Science students who left the program in good standing, and according to the Fire Science progression criteria. Students who have been out of the program will return under the most current bulletin. A new background check and drug screen must be completed and approved before being readmitted.

Transportation Policies

Students are expected to provide their own transportation to and from off-campus. Faculty will not provide transportation.

On-campus Residency and Transfer Requirements

Complete a minimum of 15 semester credit hours in residence. The last 12 hours before graduation must be taken in residence at SWAU. Transfer credits will be awarded according to University policy.

Boot Camp

Boot camp is an intensive hands-on lab/skills session that is completed in a special summer term after successful completion of the freshman year. The candidate will sign up for a May, June, July, or August Boot Camp offering before the end of their first semester. Students will be participating in an intensive 2-week program designed to complete the practical (skills) portion of the Fire Academy. Every effort has been made to replicate a real working fire station to make the Boot Camp experience in every way a slice of the professional firefighter's life. The entire academy class will be housed in a new, state of the art training facility. Students will be responsible for cleaning and basic housekeeping for the facility. Most hands-on training will take place in the fire yard, on the apparatus, fire tower, in a burning building, or at other appropriate facilities. Students will be required to pass the final evaluation with at least an 80% in order to be permitted to test for their certificate with the Texas Commission on Fire Protection. The final evaluation is a 200 question, multiple-choice exam that will be given at the boot camp. Failure in any of these components will require remedial training and a re-test

Program: Fire Science

Type: A.A.S.

Required Courses

This major requires one elective hour

Item #	Title	Credits
BIOL 101	Anatomy & Physiology I	4
ENGL 121	Freshman Composition	3
	History Electives for Two Year Program	3
KINA 111	Physical Fitness	1
	Religion Electives for Two Year Program	6
FIRS 101	Firefighter Certification I	3
FIRS 102	Firefighter Certification II	3
FIRS 103	Firefighter Certification III	3
FIRS 104	Firefighter Certification IV	3
FIRS 201	Firefighter Certification V	3
FIRS 202	Firefighter Certification VI	3

FIRS 203	Firefighter Certification VII	3
FIRS 204	Fire Fighting Practicum - "Skill Month"	2
FIRT 211	Internship	3
FIRT 212	Firefighter Health & Safety	3
FIRT 213	Fire Prevention, Codes, and Inspection	3
FIRT 215	Fire Apparatus Pumper - Driver/Operator	3
EMSP 201	EMT Basic	4
EMSP 202	EMT Clinical	1
Sub-Total Credits		57
Total credits for degree:		60

EMSP 201: EMT Basic

This course is designed to teach the student how to apply operational principles in out-of-hospital environments and demonstrate lifesaving care to patients at the Emergency Medical Technician (EMT) level and display professional and ethical behaviors expected of emergency personnel.

Credits: 4

Program: Fire Science

EMSP 202: EMT Clinical

This course is designed to teach the student the hands-on skills necessary for the Emergency Medical Technician (EMT) level, as well as satisfy EMS clinical and ambulance rotation requirements in order to be certified as an EMT by the Texas Department of Health.

Credits: 1

Program: Fire Science

FIRS 101: Firefighter Certification I

One in a series of courses in basic preparation for a new firefighter. Covers the following subjects: History of the fire service, orientation to the fire service, firefighter qualifications and safety, fire service communications, incident command system, and fire behavior. Course should be taken in conjunction with Firefighter Certification II, III, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression.

Credits: 3

Program: Fire Science

FIRS 102: Firefighter Certification II

One in a series of courses in basic preparation for a new firefighter. Covers the following subjects: Building construction, personal protective equipment, portable fire extinguishers, ropes, knots and hitches. Course should be taken in conjunction with Firefighter Certification II, III, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression.

Credits: 3

Program: [Fire Science](#)

FIRS 103: Firefighter Certification III

One in a series of courses in basic preparation for a new firefighter. Covers the following subjects: Search, removal, and firefighter survival, forcible entry, ladders, ventilation, and water supply. Course should be taken in conjunction with Firefighter Certification II, III, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression.

Credits: 3

Program: [Fire Science](#)

FIRS 104: Firefighter Certification IV

One in a series of courses in basic preparation for a new firefighter. Covers the following subjects: Vehicle and technical rescue, fire hose, fire streams, highway safety, and wild land fires. Course should be taken in conjunction with Firefighter Certification II, III, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression.

Credits: 3

Program: [Fire Science](#)

FIRS 201: Firefighter Certification V

One in a series of courses in basic preparation for a new firefighter. Covers the following subjects: Fire control, emergency medical care, fire and life safety, fire origin and cause determination, fire protection systems. Course should be taken in conjunction with Firefighter Certification II, III, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression.

Credits: 3

Program: [Fire Science](#)

FIRS 202: Firefighter Certification VI

One in a series of courses in basic preparation for a new firefighter. Covers the following subjects: Hazardous Materials Awareness, Hazardous Materials operations, Course should be taken in conjunction with Firefighter Certification II, III, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression.

Credits: 3

Prerequisites: [FIRS 201](#)

Program: [Fire Science](#)

FIRS 203: Firefighter Certification VII

One in a series of courses in basic preparation for a new firefighter. Covers the following subjects: Firefighter 1 and 2 skills, and Hazardous Materials awareness and operations skills. The course also includes all laboratory elements for FIRS 101, 102, 103, 201, 202, and 203. Course must be taken in conjunction with Firefighter Certification II, III, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression.

Credits: 3

Program: [Fire Science](#)

FIRS 204: Fire Fighting Practicum - "Skill Month"

One in a series of courses in basic preparation for a new firefighter. Covers the following subjects: live fire operations, hands on skills completion, skills testing and evaluation. Course must be taken in conjunction with Firefighter Certification II, III, IV, V, VI, VII, and VIII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression.

Credits: 2

Prerequisites: [FIRS 203](#)

Program: [Fire Science](#)

FIRT 211: Internship

This course is designed give the student "real world" fire service experience through internship with a local fire department.

Credits: 3

Program: [Fire Science](#)

FIRT 212: Firefighter Health & Safety

This course teaches the student fire ground survival techniques, firefighter safety and health, practices and procedures related to emergency and non-emergency operations and components of a firefighter wellness program.

Credits: 3

Prerequisites: [FIRS 204](#)

Program: [Fire Science](#)

FIRT 213: Fire Prevention, Codes, and Inspection

This course will train the student to be a certified fire inspector. The student will learn to apply provisions of local building and fire prevention codes to fire prevention inspections; and describe fire inspection practices and procedures including hazard recognition and correction.

Credits: 3

Prerequisites: [FIRS 204](#) TCFP Certification

Program: [Fire Science](#)

FIRT 214: Fire Investigation

This course will train the student to be a certified fire investigator. The student will learn to identify the point of origin and the cause of the fire; list possible motives of fire setters; and describe the elements of investigation practices.

Credits: 3

Prerequisites: [FIRS 204](#) TCFP Certification

Program: [Fire Science](#)

FIRT 215: Fire Apparatus Pumper-Driver/Operator

The course will train the student to become certified to drive a pumper (engine) fire apparatus. The course is designed to teach the student to demonstrate competencies set forth in the TCFP curriculum for Driver/Operator-Pumper.

Credits: 3

Prerequisites: [FIRS 204](#) TCFP Certification

Program: [Fire Science](#)

FIRT 215: Fire Apparatus Pumper - Driver/Operator

The course will train the student to become certified to drive a pumper (engine) fire apparatus. The course is designed to teach the student to demonstrate competencies set forth in the TCFP curriculum for Driver/Operator-Pumper.

Credits: 3

Prerequisites: [FIRS 204](#) TCFP Certification

Program: [Fire Science](#)

General and Interdisciplinary Studies

Faculty/Staff

General and Interdisciplinary Studies Program Director

Departmental Sponsors / Advisors

Descriptions of the Programs

Southwestern's General and Interdisciplinary Studies programs provide flexible, multidisciplinary curricula that challenge students to achieve proficiency in several subjects rather than focusing on one major area of study. The General and Interdisciplinary Studies curricula are geared to prepare students for a lifetime of evolving opportunities aligned with their career aspirations.

These programs are designed for students who:

- 1) Aspire to earn an interdisciplinary college degree that integrates two or more areas of emphasis.
- 2) Wish to attend Southwestern yet aspire to a career for which Southwestern does not offer a major, or that overlaps multiple existing majors.
- 3) Students who Choose to attend Southwestern, but whose career goals require a general associate's or bachelor's degree rather than a specific major.
- 4) Encounter a significant hurdle(s) in a specific major, yet and wish to complete a degree in order to secure employment as a college graduate.
- 5) Desire to apply credits earned as part of an AAS degree toward a bachelor's degree.

General and Interdisciplinary Studies Degrees

Associate of Science

Associate of Science

The Associate of Science, General Studies, comprises all the general education courses required for a Bachelor of Science degree with the following exception: 6 hours of religion instead of 12, and no upper division credits are required. The Associate of Science degree is not awarded en route to or concurrently with a bachelor's degree at Southwestern. However, a student who has earned an Associate of Science degree at Southwestern may elect to complete the requirements for a bachelor's degree.

Program: General and Interdisciplinary Studies

Type: A.S.

Total credits for degree: 60

Bachelor of Applied Arts and Sciences

Bachelor of Applied Arts and Sciences (B.A.A.S.)

Individuals who begin careers in technical fields often seek to further their education for advancement and promotion by completing a four-year bachelor's degree. The BAAS program is designed to transition students from an Associate of Applied Arts or an Associate of Applied Science degree to a bachelor's degree using courses that provide knowledge and skills designed to enhance marketability and leadership potential.

The Bachelor of Applied Arts and Sciences degree consists of

- General Education 33 credit hours
- Career Field/Occupation 30-39 credit hours
- Professional Development 34 credit hours
- Electives 12-21 credit hours
- UNIV 111 2 credit hours

Program: General and Interdisciplinary Studies

Type: B.A.A.S.

General Education

Sub-Total Credits 33

Career Field/Occupation

Sub-Total Credits 33-39

Professional Development

Sub-Total Credits 34

Electives

Sub-Total Credits 12-21

UNIV 111

Item #	Title	Credits
UNIV 111	Wellness for Life	2
Sub-Total Credits		2

Total credits for degree: 114-129

General Studies

B.S. in General Studies

This program serves three cohorts of students: it offers an entry point for freshmen (with 24 or fewer credits) who have not yet selected an academic path; it offers an exit path for seniors (90 or more credits) who may have encountered a significant hurdle in their traditional major; and it serves distance education, adult students seeking a general bachelor's degree. Traditional, on-campus students who begin college as General Studies majors will transfer into a traditional major, the interdisciplinary studies major, or the associates degree program upon reaching sophomore status.

The General Studies BS degree consists of 42 credits (18 upper division) within one of three broad categories: Humanities, Social Sciences, and Sciences. All University requirements for the QEP, general education courses, and GPA must be met. In addition, all General Studies bachelor's degree graduates will complete the Capstone seminar course, UNIV 420 (1 credit hour).

Program: General and Interdisciplinary Studies

Type: B.S.

Core

Sub-Total Credits		42
UNIV 420		
Item #	Title	Credits
UNIV 420	Capstone Seminar	1
Sub-Total Credits		1
Total credits for degree:		43

Interdisciplinary Studies

Interdisciplinary Studies B.A. / B.S.

A student who has a specific career goal not included in the majors and minors offered by Southwestern may choose two or more areas of emphasis to create an Interdisciplinary Studies Bachelor's degree. In consultation with the Records Office, an academic advisor and chair from the sponsoring department(s) will prepare a graduation plan. This degree plan provides greater flexibility for students in the choice of coursework or emphases.

Possible career paths and emphasis combinations include:

- Bioinformatics (Biology and Computer Science)

- Entrepreneurial studies (Business and Communication)
- Health insurance adjusters (Business and Nursing)
- Paralegal studies (History and English / Communication)
- ESL instruction for international teaching (English and Education)

Graduate School preparation, such as:

- Art therapy (Art and Psychology)
- ESL instruction for higher education (English and Education)
- Global development (Business and Environmental Biology)
- History consultant (Communication / Film Studies and History)
- Pre-law (History / Political Science and Communication)
- Orthotics and prosthetics (Kinesiology and Biology)

Specific requirements:

1) Students will be assigned an academic advisor by the Records Office. Student and complete a plan for graduation.

2) Students will select two (or more) areas of emphasis, each to include 24 credit hours (9 upper division) to be determined by the sponsoring department(s). Emphasis areas will be identified on the student's transcript and diploma.

3) Bachelor's degrees candidates will meet all University graduation requirements. In addition, all bachelor's degree candidates will complete the Interdisciplinary Studies introductory course, UNIV 220 (2 credit hours), and the Capstone seminar course, UNIV 420 (1 credit hour).

4) BA graduates will meet the University's foreign language requirement, but are not required to declare a minor.

5) After earning a bachelor's degree in Interdisciplinary Studies, a student may return to earn a second bachelor's degree. An area of emphasis may only be used as a major in the second degree if there are 30 additional hours available in the major.

Program: General and Interdisciplinary Studies

Type: B.S.

Total credits for degree: 120

UNIV 220: Introduction to General and Interdisciplinary Studies

This course introduces General and Interdisciplinary Studies students to a broad set of skills and resources that can be utilized in pursuing specific academic and career goals. It also provides the foundation for creating a successful academic plan within the Interdisciplinary Studies program.

Credits: 2

Program: [General and Interdisciplinary Studies](#)

UNIV 420: Capstone Seminar

This course fulfills the requirement for a capstone/portfolio completion course in the student's area(s) of emphasis.

Credits: 1

Program: [General and Interdisciplinary Studies](#)

Geology

Faculty/Staff

Arthur Schwarz, Chair.

Adjunct: Art Chadwick

Program

Southwestern Adventist University, in conjunction with Loma Linda University, offers a geology program with major emphasis in sedimentology, stratigraphy and paleontology. The freshman and sophomore years are taken on the campus of Southwestern Adventist University, while the junior and senior years are taken on the campus of Loma Linda University.

Geology Degrees

Geology Transfer Program

Freshman and sophomore sample schedule for transfer to Loma Linda University.

Program: *Geology*

Freshman Year

This major requires three elective hours.

Item #	Title	Credits
	BIOL 111, BIOL 112	8
	CHEM 111, CHEM 112	8
ENGL 121	Freshman Composition	3
	GEOL 111, GEOL 112	8
MATH 121	Precalculus	3
Sub-Total Credits		30

Summer

Item #	Title	Credits
GEOL 240	The Dinosaurs	4
Sub-Total Credits		4

Sophomore Year

This major requires two elective hours.

Item #	Title	Credits
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CHEM 310	Environmental and Geological Chemistry	4
ENGL 220	Research Writing	3
GEOL 220	Mineralogy	4
GEOL 320	Stratigraphy and Sedimentary Petrology and Petrography	4
	PHYS 121, PHYS 122	8
KINA 111	Physical Fitness	1
	Religion Electives for Two Year Program	6
	History Electives for Two Year Program	3
Sub-Total Credits		33
Total credits for degree:		69

GEOL 111: Physical Geology

A study of the earth, its composition, and the forces that control and change it. Laboratory includes recognition of common rocks and minerals and training in use of geologic maps and interpreting the physical processes recorded in the earth's surface. Laboratory includes a four-day field trip.

Credits: 4

Lab Hours: 3

Lecture Hours: 3

Program: *Geology*

Semester Offered: Periodically

GEOL 112: Principles of Historical Geology and Paleontology

A study of the disciplines of historical geology and invertebrate paleontology. Emphasis will be on the tools of historical interpretation. Laboratory will cover the invertebrate and vertebrate fossil groups systematically. May apply toward biology major by petition. Laboratory includes a four-day field trip. Field trip fee.

Credits: 4

Lab Hours: 3

Lecture Hours: 3

Program: *Geology*

Semester Offered: Periodically

GEOL 220: Mineralogy

Introduction to crystallography; crystal optics; structure, composition, properties, stability and geological occurrences of minerals; and mineral identification. Student will be familiar with laboratory techniques for mineral identification, including x-ray, thin-section, and microprobe analyses.

Credits: 4

Lab Hours: 3

Lecture Hours: 3

Prerequisites: [GEOL 112](#) [CHEM 112](#)

Program: [Geology](#)

Semester Offered: Spring even years

GEOL 240: The Dinosaurs

A field course covering the taxonomic relationships, environment and fossil record of the dinosaurs. Includes extensive training in field methods of vertebrate paleontology and participation in the dinosaur research project. Taught for four weeks in Wyoming. Field fee covering the cost of transportation, room and board.

Credits: 4

Lab Hours: 1

Lecture Hours: 3

Prerequisites: [GEOL 112](#) or permission of instructor

Program: [Geology](#)

Semester Offered: Summer

GEOL 298: Individual Study Topics

A study in an area of student interest under the direction of a staff member. This study may involve data collection, or library work and will involve a written report. Content and method of study must be arranged prior to registration. May be repeated for a total of 3 credits.

Credits: 1 - 3

Prerequisites: [GEOL 111](#), [112](#), and approval of instructor

Program: [Geology](#)

GEOL 320: Stratigraphy and Sedimentary Petrology and Petrography

An introduction to the description, origin, and historical interpretation of stratified rocks.

Credits: 4

Prerequisites: [GEOL 111](#) [GEOL 112](#)

Program: [Geology](#)

Semester Offered: Periodically

GEOL 330: Summer Field Geology

Stratigraphic and structural mapping of sedimentary and related igneous and metamorphic rocks and analysis of data collected in the field. Taught for four weeks in Wyoming in connection with the Dinosaur course. Field fee covering the cost of transportation, room and board.

Credits: 4

Lab Hours: 1

Lecture Hours: 3

Prerequisites: [GEOL 320](#)

Program: [Geology](#)

Semester Offered: Summer

GEOL 380: Research Methods

A general introduction to the techniques and methodologies of scientific literature and presentations based upon library and on-line research. Each student will select a specific topic for research, prepare a paper, and make an oral presentation based on that work. The student will learn scientific methodology, basic statistical skills, and critical data analysis.

Credits: 2

Prerequisites: [GEOL 111](#), [112](#) or any entry level science sequence

Program: [Geology](#)

Semester Offered: Fall

GEOL 419: Philosophy of Science

A study of the philosophies and methodologies of science. Includes a review of the history of scientific and religious thought and the role each has played in the development of modern theories of origin. (Also taught as RELT or BIOL 419.)

Credits: 3

Program: [Geology](#)

Semester Offered: Spring

GEOL 480: Research in Geology

and approval of instructor A supervised research experience involving the development of a research proposal, data collection, and a written paper. Research proposal may be developed in [GEOL 380](#). May be repeated for a total of 5 credits.

Credits: 1 - 3

Prerequisites: [GEOL 380](#) and approval of instructor

Program: [Geology](#)

Semester Offered: Periodically

GEOL 481: Senior Thesis

This course is designed to permit the student to develop a publishable-quality research paper. Instruction consists of writing techniques and guidance in the completion of this project. Students will give several oral progress-reports, a final presentation at the Honors Research Symposium, and a completed Senior Thesis.

Credits: 1

Prerequisites: [GEOL 480](#)

Program: [Geology](#)

Semester Offered: Spring

GEOL 498: Individual Study Topics

Special study may be pursued beyond completed course work under the direction of a staff member. This study may involve data collection or library work and will involve a written report. Content and method of study must be arranged prior to registration. May be repeated for a total of 3 credits.

Credits: 1 - 3

Prerequisites: GEOL 111, 112; two upper division courses, and permission of the instructor

Program: [Geology](#)

History & Social Science

Faculty/Staff

R. Steven Jones, Chair; Elizabeth Bowser, Amy Rosenthal

Adjunct: Randall Butler, Karen Kaiser, Chloe Northrop, Monroe Solomon III

Mission

The mission of the History/Social Science Department is to help students acquire critical, analytical, and communicative skills through a mastery of Social Science courses, taught in a Christian context.

Aims of the Department

The department's offerings in history are designed to help the student to understand the present more fully by guiding him in a study of the past and by helping him to reason from cause to effect. The study of history is approached from the biblical viewpoint. "In the annals of human history the growth of nations, the rise and fall of empires, appear as dependent on the will and prowess of man. The shaping of events seems, to a large degree, to be determined by his power, ambition, or caprice. But in the Word of God the curtain is drawn aside, and we behold, behind, above, and through all the play and counter-play of human interests and power and passions, the agencies of the all-merciful One, silently, patiently working out the counsel of His own will." E. G. White, EDUCATION, p. 173.

In political science the student traces the development, functions, and operation of national, local, and foreign governments.

History & Social Science Degrees

B.A. History

Students will also complete and present a senior thesis.

Program: History & Social Science

Type: B.A.

Required Courses

Item #	Title	Credits
HIST 111	American History, 1492-1865	3

HIST 112	American History, 1866 to Present	3
HIST 201	Historical Methods: Research and Historiography	3
HIST 225	World Civilizations I	3
HIST 226	World Civilizations II	3
	HIST Electives	21
Sub-Total Credits		36

Required cognates:

Item #	Title	Credits
	Political Science Elective For History Major	3
Sub-Total Credits		3
Total credits for degree:		39

B.A. History - Secondary Teaching Area

Program: History & Social Science

Type: B.A.

Required Courses

The following history major is for teaching certification only. Requirements for certification are listed in the Education section of the *Bulletin*. You must make formal application for admittance to the Teacher Education Program. Applications are available at the Education Department office.

Students will also complete a senior portfolio which includes a thesis paper.

Item #	Title	Credits
HIST 111	American History, 1492-1865	3
HIST 112	American History, 1866 to Present	3
HIST 201	Historical Methods: Research and Historiography	3
HIST 225	World Civilizations I	3
HIST 226	World Civilizations II	3
	HIST Electives	21
Sub-Total Credits		36

Total credits for degree: 36

B.A. History, International Relations, and Public Policy

Students will also complete and present a senior thesis.

Program: History & Social Science

Type: B.A.

Required Courses

Item #	Title	Credits
HIST 112	American History, 1866 to Present	3
HIST 201	Historical Methods: Research and Historiography	3
HIST 226	World Civilizations II	3
HIST 242	Historical and Political Geography	3
HIST 320	American International Relations	3
HIST 425	Executive Leadership	3
	Topical Histories	6
Sub-Total Credits		24

Political Science

Item #	Title	Credits
POLS 211	National and Texas Constitutions	3
	POLS 360, POLS 364	3
Sub-Total Credits		6

Internship

Item #	Title	Credits
	HIST 492, POLS 492	3
Sub-Total Credits		3

Portfolio

Item #	Title	Credits
HIST 475	Portfolio Development	1
Sub-Total Credits		1

Required Cognates

Item #	Title	Credits
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ECON 211	Macroeconomics	3
	BUAD 211 or BUAD 453	3
	BUAD 460 or COMM 431	3
SOCI 111	Introduction to Sociology	3
Sub-Total Credits		12
Total credits for degree:		46

B.S. Social Science

Students will also complete a senior portfolio which includes a thesis paper.

Program: History & Social Science

Type: B.S.

Required Courses

Item #	Title	Credits
ECON 211	Macroeconomics	3
HIST 111	American History, 1492-1865	3
HIST 112	American History, 1866 to Present	3
HIST 201	Historical Methods: Research and Historiography	3
HIST 225	World Civilizations I	3
HIST 226	World Civilizations II	3
HIST 242	Historical and Political Geography	3
	HIST Social Science Electives	18
	POLS Electives	6
	SOCS Electives	3
Sub-Total Credits		48
Total credits for degree:		48

B.S. Social Studies - Secondary Teaching Area

The following social studies major is for teaching certification only. Requirements for certification are listed in the Education section of the *Bulletin*. You must make formal

application for admittance to the Teacher Education Program. Applications are available at the Education Department office.

Students will also complete and present a senior thesis.

Program: History & Social Science

Type: B.S.

Required Courses

Item #	Title	Credits
HIST 111	American History, 1492-1865	3
HIST 112	American History, 1866 to Present	3
HIST 201	Historical Methods: Research and Historiography	3
HIST 225	World Civilizations I	3
HIST 226	World Civilizations II	3
HIST 242	Historical and Political Geography	3
	Non U.S. History for Social Studies Major	9
	History Electives for SS Secondary Teaching Major	9
	POLS Electives	6
	Economics Electives 6 Hours	6
Sub-Total Credits		48
Total credits for degree:		48

Minor in History

Program: History & Social Science

Type: Minor

Required Courses

Item #	Title	Credits
HIST 111	American History, 1492-1865	3
HIST 112	American History, 1866 to Present	3
	HIST 225 or HIST 226	3

History Minor Upper Division Electives	9
Sub-Total Credits	18
Total credits for degree:	18

Minor in History - Secondary Teaching Area

The following history minor is for teaching certification only. Requirements for certification are listed in the Education section of the *Bulletin*. You must make formal application for admittance to the Teacher Education Program. Applications are available at the Education Department office.

Program: History & Social Science

Type: Minor

Required Courses

Item #	Title	Credits
HIST 111	American History, 1492-1865	3
HIST 112	American History, 1866 to Present	3
HIST 225	World Civilizations I	3
HIST 226	World Civilizations II	3
	History Secondary Teaching minor electives	12
Sub-Total Credits		24
Total credits for degree:		24

Minor in Political Science

Program: History & Social Science

Type: Minor

Required Courses

Item #	Title	Credits
POLS 211	National and Texas Constitutions	3
	Political Science Elective For Minor	15
Sub-Total Credits		18
Total credits for degree:		18

Minor in Social Science

Program: [History & Social Science](#)

Type: Minor

Required Courses

Item #	Title	Credits
HIST 112	American History, 1866 to Present	3
HIST 226	World Civilizations II	3
HIST 242	Historical and Political Geography	3
	Political Science Elective For SS Minor	6
	Economics Electives 6 Hours	6
	History Electives for SS Minor	3
Sub-Total Credits		24
Total credits for degree:		24

HIST 111: American History, 1492-1865

A brief account of the discoveries, colonization, and the struggle for independence; growth of federal government, expansion of territory, and the Civil War.

Credits: 3

Program: [History & Social Science](#)

Semester Offered: Fall

HIST 112: American History, 1866 to Present

A survey of U.S. history beginning with Reconstruction and big business, through two major world wars, to the present time of cold and hot wars.

Credits: 3

Program: [History & Social Science](#)

Semester Offered: Spring

HIST 201: Historical Methods: Research and Historiography

An introduction to the skills used in the profession of history. Students will use primary and secondary sources as well as historical journals, indexes, and databases as they produce a major research paper, bibliography, and book review; prepare a presentation based on their work; and engage in other activities relative to critical thinking within the discipline of history. Students will also be exposed to basic trends in historiography. Within this class, history/social science majors begin the process of senior portfolio development.

Credits: 3

Prerequisites: [ENGL 121](#)

Program: [History & Social Science](#)

Semester Offered: Spring

HIST 204: Advanced American History, 1866-Present

This course provides a detailed study of American history from Reconstruction to the present, charting the United States' rise from a frontier nation to a world power. This course covers the turbulent days of post-Civil War Reconstruction and the settlement of the west, booming industrialism, Populism and Progressivism, the United States in World Wars I & II, the Cold War, and the distrust of the post-Watergate era. Students will become acquainted with trends in American historiography and practice the skills of historical interpretation and writing. The class satisfies general education requirements for history. It is required for history/social science majors. Students taking this course should not take HIST 112, American History, 1866-Present.

Credits: 3

Program: [History & Social Science](#)

Semester Offered: Spring

HIST 208: Advanced World Civilizations, early times to the 16th Century

This course is an introductory survey of world history from prehistory to 1400. Through reading, lectures, discussion, and writing you will gain an elementary understanding of the sub-discipline of world history and the major places, civilizations, events, personalities, and issues of modern world history. This course will also display how history can inform our understanding of contemporary events.

Credits: 3

Program: [History & Social Science](#)

Semester Offered: Fall

HIST 221: History of Western Art

A survey of fine arts and how they have related to the various cultures throughout western civilization. The class will deal with the arts from the Renaissance to the present time. (Also taught as ARTS 221)

Credits: 3

Program: [History & Social Science](#)

Semester Offered: Spring

HIST 225: World Civilizations I

This course is an introductory survey of world history from prehistory to 1400. Through reading, lectures, discussion, and writing you will gain an elementary understanding of the sub-discipline of world history and the major places, civilizations, events, personalities, and issues of modern world history. This course will also display how history can inform our understanding of contemporary events.

Credits: 3

Program: [History & Social Science](#)

Semester Offered: Fall

HIST 226: World Civilizations II

This course is an introductory survey of world history from 1400 to present. Through reading, lectures, discussion, and writing you will gain an elementary understanding of the sub-discipline of world history and the major places, civilizations, events, personalities, and issues of modern world history. This course will also display how history can inform our understanding of contemporary events.

Credits: 3

Program: [History & Social Science](#)

Semester Offered: Spring

HIST 242: Historical and Political Geography

This course considers the interaction between world cultures, environments, and geographic regions to explain patterns of human history and political development.

Credits: 3

Program: [History & Social Science](#)

Semester Offered: Spring

HIST 298: Individual Study Topics

Designed for the student who wishes to do independent study or research. Content and method of study must be arranged prior to registration. May be repeated for a total of 3 credits.

Credits: 1 - 3

Prerequisites: Approval of department chair

Program: [History & Social Science](#)

HIST 299: Directed Group Study Topics

Provides academic departments an opportunity to offer courses in specialized or experimental areas, either lower or upper division, not listed in the undergraduate *Bulletin*. May be repeated for a total of 3 credits.

Credits: 1 - 3

Prerequisites: Approval by department chair

Program: [History & Social Science](#)

HIST 320: American International Relations

Details American foreign policies and diplomatic relations toward Europe, Latin America, and Asia, from the revolutionary era to the present. Will detail major foreign policy decisions and initiatives and the results of each. (Also taught as POLS 320)

Credits: 3

Program: [History & Social Science](#)

Semester Offered: Fall, odd years

HIST 326: From Colony to Nation, 1607-1783

A study of the creation of the American nation. The course examines how transplanted Europeans became a new people, emphasizing social, political, and economic changes that led to independence. Includes a discussion of the impact of African slavery upon American democracy.

Credits: 3

Program: [History & Social Science](#)

Semester Offered: Periodically

HIST 331: History of Christianity I

A study of the rise and impact of Christianity in the Roman world and western culture. Attention is given to theological and social movements, the influence of Islam, the crusades, expansionism, and religious adaptation to modern life. The second semester traces development from the Reformation through the growth of American religion. (Also taught as RLGN 331, 332)

Credits: 3

Program: [History & Social Science](#)

Semester Offered: Fall

HIST 332: History of Christianity II

A study of the rise and impact of Christianity in the Roman world and western culture. Attention is given to theological and social movements, the influence of Islam, the crusades, expansionism, and religious adaptation to modern life. The second semester traces development from the Reformation through the growth of American religion. (Also taught as RLGN 331, 332)

Credits: 3

Program: [History & Social Science](#)

Semester Offered: Spring

HIST 335: Establishing a Nation, 1783-1836

An in-depth study of United States history from the Articles of Confederation through the Constitution, War of 1812, and Jacksonian Democracy.

Credits: 3

Program: [History & Social Science](#)

Semester Offered: Periodically

HIST 345: Sectionalism and Civil War, 1836-1865

American history from the Reform Era through Manifest Destiny, Sectionalism and Civil War.

Credits: 3

Program: [History & Social Science](#)

Semester Offered: Fall, even years

HIST 355: Reconstruction and Reunion, 1865-1917

American history from the close of the Civil War to the US entry into World War I. Among the topics examined in this course are Reconstruction and the New South, industrialization, the "winning of the West," immigration, and America's changing world role.

Credits: 3

Program: [History & Social Science](#)

Semester Offered: Periodically

HIST 360: History of the British Isles

A study Britain from pre-Roman times through the restoration of the monarchy under William and Mary in 1688. Topics include Anglo-Saxon England, the Norman Conquest, the Wars of the Roses, the Tudor and Stuart dynasties, and the English Civil War.

Credits: 3

Program: [History & Social Science](#)

Semester Offered: Periodically

HIST 364: Ancient Cultures

This is a study of man from his beginning through the empires of Assyria, Babylon, Egypt, Persia, Israel, Greece, and Rome to the end of the Roman Republic.

Credits: 3

Program: [History & Social Science](#)

Semester Offered: Fall, even years

HIST 365: Global Power: America from 1917 to Present

A study of the American rise to global power. Class will focus on WWII, the Cold War, Era of Civil Rights, Vietnam, Watergate, and the post-Cold War era.

Credits: 3

Program: [History & Social Science](#)

Semester Offered: Spring even years

HIST 370: East Asian History

A survey of the history of East Asia, primarily China, Korea, and Japan, from its foundations until modern times. Topics will include China's enduring influence over its neighbors, interactions with and isolation from the West, the emergence and growth of Buddhism, the influence of Confucian philosophy, Chinese and Japanese imperialism, Western imperialism in East Asia, and Nationalism and Communism.

Credits: 3

Program: [History & Social Science](#)

Semester Offered: Periodically

HIST 414: Early Modern Europe

A survey of the Renaissance, Reformation, counter-Reformation, Absolutism, competition for empire, the Scientific Revolution, the Enlightenment, and the coming of Revolutions.

Credits: 3

Program: [History & Social Science](#)

Semester Offered: Fall, odd years

HIST 415: Texas and the West

A study of the multi-cultural heritage of Texas and the West with special emphasis on the pre-Columbian Native American cultures; Spanish, Mexican, and Anglo-American colonization; the annexation of the region to the US; and social, political, and industrial developments up to the present.

Credits: 3

Program: [History & Social Science](#)

Semester Offered: Periodically

HIST 424: Modern Europe

A study of the Intellectual and Industrial Revolution, the New Imperialism, the intensification of Nationalism, World War I, the Depression, the development and spread of Fascism and Communism, World War II, the Cold War, Decolonization and the emergence of a multipolar world.

Credits: 3

Program: [History & Social Science](#)

Semester Offered: Spring even years

HIST 425: Executive Leadership

A study of leadership styles and their impact on politics and history. Examines the elements of leadership by focusing on different figures from the political, military, and corporate arenas, such as Ulysses S. Grant, Andrew Carnegie, Alexander the Great, and Winston Churchill. Students will be able to take information gained from this class and apply it to a variety of life situations. (Also taught as POLS 425.)

Credits: 3

Program: [History & Social Science](#)

Semester Offered: Periodically

HIST 430: Medieval Europe

A study of European history during the middle ages, approximately 500-1500 A.D. Course topics include feudalism, monasticism, the growth of monarchies, the Crusades, heresy and inquisition, the commercial revolution, the Hundred Years' War, the Bubonic Plague, and the advent of the university.

Credits: 3

Program: [History & Social Science](#)

Semester Offered: Spring even years

HIST 475: Portfolio Development

In this class, departmental majors will meet at arranged times with departmental faculty to finalize the contents of their portfolio before graduation. Students will also complete their senior thesis in this course. This class is required of majors in History, Social Science, Social Science (emphasis International Relations), and Social Studies, Secondary Education. Students should take the class in their last semester before graduation; however, they may take it both semesters of their senior year upon advisor recommendation.

Credits: 1

Program: [History & Social Science](#)

Semester Offered: Fall Spring

HIST 492: History/Social Science Internship

Students in the History, International Relations, and Public Policy major will take three hours of internship work. This may be three hours at one internship agency, or divided among different agencies in one-hour increments. Students will meet with departmental faculty and agency representatives to agree on an internship contract before beginning the course. The internship(s) will enable students to work directly in an area of their interest, give them experience vital in job searches, and give them an advantage when seeking graduate education. Eligible for IP grading.

Credits: 1 - 3

Program: [History & Social Science](#)

HIST 498: Individual Study Topics

Designed for the student who wishes to do independent study or research. Content and method of study must be arranged prior to registration. May be repeated for a total of 3 credits.

Credits: 1 - 3

Prerequisites: Approval of department chair

Program: [History & Social Science](#)

HIST 499: Directed Group Study Topics

Provides academic departments an opportunity to offer courses in specialized or experimental areas, either lower or upper division, not listed in the undergraduate *Bulletin*. Student may be allowed to repeat the course for credit.

Credits: 1 - 3

Prerequisites: Approval by department chair

Program: [History & Social Science](#)

POLS 211: National and Texas Constitutions

This is a comprehensive treatment of U.S. and Texas Constitutions. The course deals with the formation of these constitutions and the governments which were established as a result. This course fulfills the government requirements as established by the Texas Education Agency.

Credits: 3

Program: [History & Social Science](#)

Semester Offered: Fall

POLS 220: Introduction to Public Policy

An introduction to the history and implementation of American public policies. The course will examine the historical context of key public policies, their creation and implementation, and their success or failure. The course will also explore the various constituencies and agencies involved in the formation of public policy. The course will focus largely on federal policies, but delve into state and local policy formation as well.

Credits: 3

Program: [History & Social Science](#)

POLS 298: Individual Study Topics

Designed for the student who wishes to do independent study research. Content and method of study must be arranged prior to registration. May be repeated for a total of 3 credits.

Credits: 1 - 3

Prerequisites: Approval of department chair

Program: [History & Social Science](#)

POLS 299: Directed Group Study Topics

Provides academic departments an opportunity to offer courses in specialized or experimental areas, either lower or upper division, not listed in the undergraduate *Bulletin*. May be repeated for a total of 3 credits.

Credits: 1 - 3

Prerequisites: Approval by department chair

Program: [History & Social Science](#)

POLS 320: American International Relations

Details American foreign policies and diplomatic relations toward Europe, Latin America, and Asia, from the revolutionary era to the present. Will detail major foreign policy decisions and initiatives and the results of each. (Also taught as HIST 320.)

Credits: 3

Program: [History & Social Science](#)

Semester Offered: Fall, odd years

POLS 360: American National Government

The organization, functions, and processes of America's national government, with particular attention to constitutional framework, the judiciary, Congress, the presidency, political parties, interest groups, and the individuals as citizen.

Credits: 3

Program: [History & Social Science](#)

Semester Offered: Periodically

POLS 364: American Constitutional Development

An historical and institutional study of the origin, growth, and interpretation of the United States Constitution, with emphasis on the leading decisions of the Supreme Court.

Credits: 3

Program: [History & Social Science](#)

Semester Offered: Periodically

POLS 425: Executive Leadership

A study of leadership styles and their impact on politics and history. Examines the elements of leadership by focusing on different figures from the political, military, and corporate arenas, such as Ulysses S. Grant, Andrew Carnegie, Alexander the Great, and Winston Churchill. Students will be able to take information gained from this class and apply it to a variety of life situations. (Also taught as HIST 425.)

Credits: 3

Program: [History & Social Science](#)

Semester Offered: Periodically

POLS 492: Political Science Internship

Students in the History, International Relations, and Public Policy major will take three hours of internship work. This may be three hours at one internship agency, or divided among different agencies in one-hour increments. Students will meet with departmental faculty and agency representatives to agree on an internship contract before beginning the course. The internship(s) will enable students to work directly in an area of their interest, give them experience vital in job searches, and give them an advantage when seeking graduate education. Eligible for IP grading.

Credits: 1 - 3

Program: [History & Social Science](#)

POLS 498: Individual Study Topics

Designed for the student who wishes to do independent study research. Content and method of study must be arranged prior to registration. May be repeated for a total of 3 credits.

Credits: 1 - 3

Program: [History & Social Science](#)

POLS 499: Directed Group Study Topics

Provides academic departments an opportunity to offer courses in specialized or experimental areas, either lower or upper division, not listed in the undergraduate *Bulletin*. Student may be allowed to repeat the course for credit.

Credits: 1 - 3

Prerequisites: Approval by department chair

Program: [History & Social Science](#)

SOCI 111: Introduction to Sociology

A general survey of sociology and many of the areas of investigation in sociology; these areas will include the family, race and ethnic relations, social class, formal organizations, collective behavior, population problems and dynamics, culture, etc. Additionally, a brief introduction to the scientific methods and theories utilized in the study of society will be presented.

Credits: 3

Program: [History & Social Science](#)

Semester Offered: Spring

Honors Program

Faculty/Staff

Amy McHenry, Director

Aims of the Program

The mission of Southwestern Adventist University's Honors Program is to enrich educational opportunities for high-achieving students and to increase cultural appreciation.

Admission and Retention

Entering freshmen with a cumulative high school GPA of at least 3.5 or an SAT composite score (critical reading and math) of at least 1130 (or a minimum ACT composite score of at least 24) are invited to apply for admission to the Honors Program. Currently enrolled SWAU students and transfer students with a cumulative GPA of at least 3.4 may apply for admission to the Honors Program. Upon acceptance into the Honors Program a student will be designated an Honors Student. In order to remain in the Honors Program as an Honors Student, a student must maintain an overall GPA of at least 3.4.

Requirements and Procedures

In order to earn the designation Honors Graduate upon completing a bachelor's degree, an Honors Student must fulfill the following requirements:

- File an application form with the Honors Director.
- Complete HNRS 200 in the freshman or sophomore year.
- Complete 9 hours from the following: HNRS 104, HNRS 204 or 208, HNRS 275, HNRS 345, HNRS 375, HNRS 404.
- Complete HNRS 301 in the junior year.
- Complete HNRS 400 and HNRS 401 in the senior year.
- The Honors Committee will vote the student an Honors Graduate upon satisfactory completion of all requirements.

Honors Program Degrees

Honors Program

Requirements and Procedures

In order to earn the designation Honors Graduate upon completing a bachelor's degree, an Honors Student must fulfill the following requirements:

- File an application form with the Honors Director.
- Complete HNRS 200 in the freshman or sophomore year.
- Complete 9 hours from the following: HNRS 104, HNRS 204 or 208, HNRS 275, HNRS 345, HNRS 375, HNRS 404.
- Complete HNRS 300 in the junior year.
- Complete HNRS 400 and HNRS 401 in the senior year.
- The Honors Committee will vote the student an Honors Graduate upon satisfactory completion of all requirements.

Program: Honors Program

Freshman or Sophomore Year

Item #	Title	Credits
HNRS 200	The Honors Perspective	3
Sub-Total Credits		3

Complete 9 hours from the following:

Item #	Title	Credits
HNRS 104	Human Communication	3
HNRS 275	Honors Study Tour	1 - 3
	HNRS 204 or HNRS 208	3
HNRS 345	Honors Environmental Studies	3
HNRS 375	Honors Study Tour	1 - 3
HNRS 404	Science and Belief	3
Sub-Total Credits		9

Complete in Senior Year

Item #	Title	Credits
HNRS 400	Senior Seminar	2
HNRS 401	Senior Seminar	2
Sub-Total Credits		4

Complete in Junior Year

Total credits for degree: 16

HNRS 104: Human Communication

This course acquaints students with skills and practices relating to human communication in a variety of contexts, including interpersonal relationships, mediated communication, small group interactions, and public presentations. Instructional strategies used in the course include lecture, discussions, group activities, and oral presentations. This course fulfills the Communication Competency requirement as specified in the Core Curriculum.

Credits: 3
Program: [Honors Program](#)
Semester Offered: Spring

HNRS 200: The Honors Perspective

An introduction to the Southwestern Honors Program. The course will examine the role of knowledge, faith, and service in the life of the educated Christian. The course will include a service project. Required in the freshman or sophomore year for all Southwestern Honors students.

Credits: 3
Program: [Honors Program](#)
Semester Offered: Fall

HNRS 204: Advanced American History 1866-Present

This course provides a detailed study of American history from Reconstruction to the present, charting the United States' rise from a frontier nation to a world power. The course covers the turbulent days of post-Civil War Reconstruction and the settlement of the west, booming industrialism, Populism and Progressivism, the United States in World Wars I & II, the Cold War, and the distrust of the post-Watergate era. Students will become acquainted with trends in American historiography and practice the skills of historical interpretation and writing. This course partially satisfies general education requirements for history. Students taking this course should not take HIST 112, American History, 1866-Present.

Credits: 3
Program: [Honors Program](#)
Semester Offered: Spring

HNRS 208: Advanced World Civilizations, early times to the 16th Century

A study of key issues, events, and transformations that form the basis for pre-modern world civilizations and established the foundations for early modern and modern world history, including the Agricultural Revolution, the development of Hebrew monotheism, classical Greek social ideas, ancient China and India, the rise and fall of the Roman empire, early empires in the Americas, and medieval Europe. This course partially satisfies general education requirements for history. Students taking this course should not take HIST 226, History of World Civilizations.

Credits: 3
Program: [Honors Program](#)
Semester Offered: Fall

HNRS 275: Honors Study Tour

A course emphasizing a particular topic approached through travel and on-site visits to historical, cultural, and artistic locations associated with the specified topic. Topics may vary. Depending on the topic, the class may be applied to a specific general education requirement, or, if applicable, to a specific academic department requirement. The student may take a combination of HNRS 275 and/or 375 for up to a total of 6 hours if the topics vary.

Credits: 1 - 3
Prerequisites: Permission of the Honors Committee
Program: [Honors Program](#)
Semester Offered: Spring Summer

HNRS 298: Individual Study Topics

Designed for the student who wishes to do independent study or research or for the teaching of a course not routinely offered. Content and method of study must be arranged prior to registration. May be repeated for a total of 3 credits.

Credits: 1 - 3
Prerequisites: Approval by the Honors Program Director
Program: [Honors Program](#)

HNRS 299: Directed Group Study Topics

Provides academic departments an opportunity to offer courses in specialized or experimental areas, either lower or upper division, not listed in the undergraduate *Bulletin*. May be repeated for a total of 3 credits.

Credits: 1 - 3
Prerequisites: Approval by department chair
Program: [Honors Program](#)

HNRS 301: Thesis Proposal Seminar

In this course, the honors student will prepare the honors thesis proposal and an annotated bibliography. Discussion will focus on research methods and professional development.

Credits: 2

Prerequisites: [HNRS 200](#)

Program: [Honors Program](#)

Semester Offered: Spring

HNRS 345: Honors Environmental Studies

Environmental science is a discipline that encompasses learning in the sciences, and touches on human development, governance and policy, and ethics. This course will provide the student with the tools to think critically about the environment and how human decisions and activities influence the quality of our lives and the other creatures we share the earth with. We will engage in lecture, discussion, debate and group projects concerning the impact of environmental problems, such as waste management, climate change, water issues, biodiversity, air pollution, human population, and resource use by society. We will also focus on local problems concerning our environment. This course is designed to meet the General Education Life Science requirement (Also taught as BIOL 345).

Credits: 3

Lab Hours: 3

Lecture Hours: 3

Program: [Honors Program](#)

Semester Offered: Spring

HNRS 375: Honors Study Tour

A course emphasizing a particular topic approached through travel and on-site visits to historical, cultural, and artistic locations associated with the specified topic. In addition, the student will submit a research project as directed by the instructor. Topics may vary. Depending on the topic, the class may be applied to a specific general education requirement, or, if applicable, to a specific academic department requirement. The student may take a combination of HNRS 275 and/or 375 for up to a total of 6 hours if the topics vary.

Credits: 1 - 3

Prerequisites: Permission of the Honors Committee

Program: [Honors Program](#)

Semester Offered: Spring Summer

HNRS 400: Senior Seminar

Through directed readings and scholarship, the honors student begins the honors thesis.

Credits: 2

Program: [Honors Program](#)

Semester Offered: Fall

HNRS 401: Senior Seminar

The Honors student completes the research and writing of the honors thesis under the direction of the honors director and an academic department faculty mentor. Coursework includes a major seminar presentation.

Credits: 2

Program: [Honors Program](#)

Semester Offered: Spring

HNRS 404: Science and Belief

A study of the philosophies and methodologies of science. The course includes a review of the history of scientific and religious thought, with particular attention given to the role each has played in the development of modern theories of origin. This class satisfies the general education requirement for an upper-division religion class (Also taught as BIOL, GEOL or RELT 419).

Credits: 3

Program: [Honors Program](#)

Semester Offered: Spring

HNRS 498: Individual Study Topics

Designed for the student who wishes to do independent study or research or for the teaching of a course not routinely offered. Content and method of study must be arranged prior to registration. May be repeated for a total of 3 credits.

Credits: 1 - 3

Prerequisites: Approval by the Honors Program Director

Program: [Honors Program](#)

HNRS 499: Directed Group Study Topics

Provides academic departments an opportunity to offer courses in specialized or experimental areas, either lower or upper division, not listed in the undergraduate *Bulletin*. Student may be allowed to repeat the course for credit.

Credits: 1 - 3

Prerequisites: Approval by department chair

Program: [Honors Program](#)

Kinesiology

Faculty/Staff

Paulino Santos Andino, Chair; Chad Hutchinson, Vesa Naukkarinen

Adjunct: Michael England, Embedzayi Tszanzi, Kim Vanhoose

Aims of the Department

The Department of Kinesiology provides classes and support for Exercise Science, Health and Fitness, Sports and Fitness Management, Physical Education and Fire Science majors as well as minors in Physical Education, Health and Fitness, and Coaching. Classes to support the general studies students in fitness, wellness and physical education are also provided. In the basic fitness and wellness classes, students are guided through a personal fitness program and encouraged to adopt a proactive wellness lifestyle, consistent with SDA teachings. Infrastructure to the University is provided by the operation of a fitness/recreation center that is available to all students and faculty.

Students may elect courses that prepare them for careers as elementary or secondary physical education teachers. A major in Physical Education will also prepare the student for a career in the public or private sector of recreation. Exercise Science is an excellent pre-professional course of study for exercise physiology, physical therapy or other areas of medicine. A major in Health and Fitness prepares the student to become a certified personal trainer and find a career in the hospital, corporate or private fitness industry. Sports and Fitness Management major is for students interested in running a health club or managing a sports team. All of the majors prepare students to enter graduate school. A major in Fire Science will prepare the student to become a professional firefighter. See Fire Science section.

Teaching Certification Program

You must make formal application for admittance to the Teacher Education Program. Applications are available at the Education Department office.

Physical Education, BS - All Level K-12 Teaching Certification Option IV (See Education section of *Bulletin*.) The student must meet the requirements for a B.S. degree in Physical Education.

Kinesiology Degrees

A.S. Health and Fitness

Program: Kinesiology

Type: A.S.

Required Courses

Item #	Title	Credits
	KINA 112 or KINA 212	1
	KINA 115 or KINA 215	1
KINA 116	Fitness Walking	1
	KINA 233 or KINA 234	1
KINT 110	Fundamentals of Kinesiology	3
KINT 216	Nutrition	3
KINT 241	Care and Prevention of Athletic Injuries	3
KINT 252	ACSM Certified Personal Trainer	3
KINT 260	First Aid, CPR, and First Responder Training	2
KINT 280	Internship	3 - 6
Sub-Total Credits		21

Required Cognate:

Item #	Title	Credits
BIOL 101	Anatomy & Physiology I	4
Sub-Total Credits		4
Total credits for degree:		25

B.S. Exercise Science

Program: Kinesiology

Type: B.S.

Required Courses

Item #	Title	Credits
	Kinesiology Core Curriculum	17
KINA 115	Resistance Training	1

KINA 215	Advanced Resistance Training	1
KINT 216	Nutrition	3
KINT 252	ACSM Certified Personal Trainer	3
KINT 260	First Aid, CPR, and First Responder Training	2
KINT 354	NSCA Certified Strength & Conditioning Specialist	3
KINT 452	ACSM Certified Health & Fitness Specialist	3
KINT 460	Applied Social Research Methods	3
KINT 480	Internship	3 - 6
Sub-Total Credits		42

Required Cognates:

Item #	Title	Credits
BIOL 101	Anatomy & Physiology I	4
BIOL 102	Anatomy & Physiology II	4
	CHEM 111, CHEM 112	8
MATH 121	Precalculus	3
MATH 141	Introduction to Probability and Statistics	3
PHYS 121	General Physics I	4
PSYC 212	General Psychology	3
PSYC 220	Human Growth and Development	3
Sub-Total Credits		32
Total credits for degree:		74

B.S. Health and Fitness

Program: Kinesiology

Type: B.S.

Required Courses

Item #	Title	Credits
	Kinesiology Core Curriculum	17
KINA 111	Physical Fitness	1
	KINA 112 or KINA 212	1

KINA 115	Resistance Training	1
KINA 116	Fitness Walking	1
	KINA 233 or KINA 234	1
KINA 215	Advanced Resistance Training	1
KINT 216	Nutrition	3
KINT 252	ACSM Certified Personal Trainer	3
KINT 260	First Aid, CPR, and First Responder Training	2
KINT 354	NSCA Certified Strength & Conditioning Specialist	3
KINT 450	Administration of Kinesiology	3
KINT 452	ACSM Certified Health & Fitness Specialist	3
KINT 480	Internship	3 - 6
Sub-Total Credits		46

Required Cognates:

Item #	Title	Credits
ACCT 211	Accounting Principles I	3
BIOL 101	Anatomy & Physiology I	4
BIOL 102	Anatomy & Physiology II	4
	COMM 261 or MKTG 303	3
PSYC 220	Human Growth and Development	3
Sub-Total Credits		17
Total credits for degree:		63

B.S. Physical Education

Program: Kinesiology

Type: B.S.

Required Courses

Item #	Title	Credits
	Kinesiology Core Curriculum	17
	KINA 115 or KINA 215	1
KINT 131	Officiating I	2
KINT 132	Officiating II	2

KINT 231	Professional Activities I	3
KINT 232	Professional Activities II	3
KINT 233	Professional Activities III	3
KINT 351	Coaching	3
KINT 420	Adapted Physical Education	3
KINT 431	Physical Education Methods (K-12)	3
KINT 450	Administration of Kinesiology	3
Sub-Total Credits		43

Required Cognates:

Item #	Title	Credits
BIOL 101	Anatomy & Physiology I	4
BIOL 102	Anatomy & Physiology II	4
Sub-Total Credits		8
Total credits for degree:		51

B.S. Sports and Fitness Management

Program: Kinesiology

Type: B.S.

Kinesiology Courses:

Item #	Title	Credits
	Kinesiology Core Curriculum	17
KINA 115	Resistance Training	1
KINT 252	ACSM Certified Personal Trainer	3
KINT 354	NSCA Certified Strength & Conditioning Specialist	3
KINT 450	Administration of Kinesiology	3
KINT 452	ACSM Certified Health & Fitness Specialist	3
KINT 485	Sports and Fitness Management Internship	6
Sub-Total Credits		36

Required Cognates:

Item #	Title	Credits
ACCT 211	Accounting Principles I	3

BIOL 101	Anatomy & Physiology I	4
BIOL 102	Anatomy & Physiology II	4
BUAD 301	Principles of Management	3
BUAD 321	Business Finance	3
BUAD 372	Human Resources Management	3
BUAD 472	Business Policies and Strategies	3
	ECON 211 or ECON 212	3
MATH 141	Introduction to Probability and Statistics	3
MKTG 343	Principles of Marketing	3
Sub-Total Credits		32
Total credits for degree:		68

Minor in Coaching

Program: Kinesiology

Type: Minor

Required Courses

Item #	Title	Credits
	KINA 115 or KINA 215	1
KINT 110	Fundamentals of Kinesiology	3
	KINT 131 or KINT 132	2
	KINT 231 or KINT 232 or KINT 233	3
KINT 241	Care and Prevention of Athletic Injuries	3
KINT 351	Coaching	3
KINT 354	NSCA Certified Strength & Conditioning Specialist	3
Sub-Total Credits		18

Required Cognate:

Item #	Title	Credits
BIOL 101	Anatomy & Physiology I	4
Sub-Total Credits		4
Total credits for degree:		22

Minor in Health and Fitness

Program: **Kinesiology**

Type: Minor

Required Courses

Item #	Title	Credits
	KINA 112 or KINA 212	1
KINA 115	Resistance Training	1
KINA 215	Advanced Resistance Training	1
KINT 110	Fundamentals of Kinesiology	3
KINT 216	Nutrition	3
KINT 241	Care and Prevention of Athletic Injuries	3
KINT 252	ACSM Certified Personal Trainer	3
KINT 452	ACSM Certified Health & Fitness Specialist	3
Sub-Total Credits		18

Required Cognate:

Item #	Title	Credits
BIOL 101	Anatomy & Physiology I	4
Sub-Total Credits		4
Total credits for degree:		22

Minor in Physical Education

Program: **Kinesiology**

Type: Minor

Required Courses

Item #	Title	Credits
	KINA 115 or KINA 215	1
KINT 110	Fundamentals of Kinesiology	3
	KINT 131 or KINT 132	2
KINT 241	Care and Prevention of Athletic Injuries	3
KINT 431	Physical Education Methods (K-12)	3

Two Professional Activities Courses 6

Sub-Total Credits 18

Required Cognate:

Item #	Title	Credits
BIOL 101	Anatomy & Physiology I	4
Sub-Total Credits		4
Total credits for degree:		22

KINA 111: Physical Fitness

An introduction to personal fitness and application of training principles. Includes flexibility, muscular fitness, body composition, and cardiovascular pre- and post-semester assessment. This course also incorporates SDA heritage on healthful living. Cannot be taken with KINT 111 Health & Wellness.

Credits: 1

Program: **Kinesiology**

Semester Offered: Fall Spring

KINA 112: Aerobics

An introduction to basic floor movements, calisthenics, and step aerobics. Students are also introduced to choreography.

Credits: 1

Program: **Kinesiology**

Semester Offered: Fall Spring

KINA 115: Resistance Training

An introduction to the development of muscular fitness through the use of weighted resistance. Safety procedures are stressed.

Credits: 1

Program: **Kinesiology**

Semester Offered: Fall

KINA 116: Fitness Walking

An introduction to cardiovascular fitness through walking.

Credits: 1

Program: **Kinesiology**

Semester Offered: Fall

KINA 122: Futsal (Indoor Soccer)

Students are taught the basic skills in shooting, passing, and goal keeping. Offensive and defensive strategies are introduced. Includes topics such as rules and terminology.

Credits: 1

Program: **Kinesiology**

Semester Offered: Periodically

KINA 124: Basketball

Development of skills in shooting, passing, executing plays and understanding offensive and defensive strategies.

Credits: 1
Program: [Kinesiology](#)
Semester Offered: Periodically

KINA 125: Volleyball

Students are taught basic skills in passing, setting, serving, and spiking. Offensive and defensive strategies are introduced.

Credits: 1
Program: [Kinesiology](#)
Semester Offered: Spring

KINA 131: Swimming

Students are introduced to basic aquatic safety, floating, freestyle, and elementary backstroke.

Credits: 1
Program: [Kinesiology](#)
Semester Offered: Fall

KINA 141: Badminton

Students will develop skills in the basic badminton strokes, including the long and short serve, overhead clear, drop shot, smash, round-the-head shot and net shots. They will also learn doubles and singles strategy.

Credits: 1
Program: [Kinesiology](#)
Semester Offered: Spring

KINA 142: Tennis

Students develop skills in the basic strokes (forehand, backhand, serve, volley, and lob). They are also introduced to strategy of play.

Credits: 1
Program: [Kinesiology](#)
Semester Offered: Fall

KINA 145: Racquetball

An introduction to five basic serves, forehand and backhand, strokes, rules, sportsmanship and strategy of the game.

Credits: 1
Program: [Kinesiology](#)
Semester Offered: Fall Spring

KINA 212: Advanced Aerobics

High intensity aerobic class. May include step aerobics, kick boxing, or other popular routines.

Credits: 1
Prerequisites: [KINA 112](#)
Program: [Kinesiology](#)
Semester Offered: Spring

KINA 215: Advanced Resistance Training

Students enhance their strength training routines with advanced methods of resistance training. Students are introduced to new training techniques and sport-specific routines.

Credits: 1
Prerequisites: [KINA 115](#) or approval by instructor
Program: [Kinesiology](#)
Semester Offered: Spring even years

KINA 222: Soccer Team

This course is designed for the advanced soccer player to participate in higher-level athletic competition as a member of a sports team. Advanced fundamentals and skills through practice, participation in intercollegiate contests and peripheral activities that include community awareness and involvement make up the components of this course. Must obtain permission from instructor to participate. May be repeated for credit for a total of 4 credits. May be applied toward general education KINA requirement. Course fee applies. Pass/no pass course.

Credits: 1
Program: [Kinesiology](#)
Semester Offered: Fall

KINA 224: Basketball Team

This course is designed for the advanced basketball player to participate in higher-level athletic competition as a member of a sports team. Advanced fundamentals and skills through practice, participation in intercollegiate contests and peripheral activities that include community awareness and involvement make up the components of this course. Must obtain permission from instructor to participate. May be repeated for credit for a total of 4 credits. May be applied toward general education KINA requirement. Course fee applies. Pass/no pass course.

Credits: 1 - 4
Program: [Kinesiology](#)
Semester Offered: Fall Spring

KINA 225: Volleyball Team

This course is designed for the advanced volleyball player to participate in higher-level athletic competition as a member of a sports team. Advanced fundamentals and skills through practice, participation in intercollegiate contests and peripheral activities that include community awareness and involvement make up the components of this course. Must obtain permission from instructor to participate. May be repeated for credit for a total of 4 credits. May be applied toward general education KINA requirement. Course fee applies. Pass/no pass course.

Credits: 1
Program: [Kinesiology](#)
Semester Offered: Fall

KINA 229: Gymnastics Team

This class is a touring, witnessing acrosport team. The skills required are basic and power tumbling, pyramid building and basket tossing. Team members are required to tour and attend clinics. May be repeated for credit. Pass/no pass course.

Credits: 1
Program: [Kinesiology](#)
Semester Offered: Fall Spring

KINA 231: Advanced Swimming

Opportunity is given for students to progress to advanced levels of swimming in backstroke, freestyle, breaststroke, and butterfly stroke.

Credits: 1
Prerequisites: [KINA 131](#) or approval by instructor
Program: [Kinesiology](#)
Semester Offered: Periodically

KINA 233: Water Aerobics

An introduction to basic water movements for strength and flexibility.

Credits: 1
Program: [Kinesiology](#)
Semester Offered: Fall

KINA 234: Lifeguard Training

Certified training in lifeguard techniques. Requires a recording fee.

Credits: 1
Program: [Kinesiology](#)
Semester Offered: Periodically

KINA 242: Advanced Tennis

For the student who wants to develop advanced skills in overhead smash, full serve, drop shot, and advanced strategy for both singles and doubles plays.

Credits: 1
Prerequisites: [KINA 141](#) or approval by instructor
Program: [Kinesiology](#)
Semester Offered: Periodically

KINA 246: Inline Hockey

Students will learn fundamental skills of skating, stick handling, passing and shooting. They will also be introduced to offensive and defensive strategies. Students must have their own hockey skates. It is preferred that students bring their own protective equipment, including helmet/ mask, gloves, shin guards and elbow pads. The department does have a limited supply.

Credits: 1
Program: [Kinesiology](#)
Semester Offered: Spring

KINA 247: Golf

An introduction to the basic strokes in golf (driving, chipping, and putting). Scoring terminology and golf etiquette are also taught. Students play on community golf courses. Requires additional fee.

Credits: 1
Program: [Kinesiology](#)
Semester Offered: Periodically

KINA 248: Advanced Racquetball

Students have the opportunity to develop advanced skills in overhead, kill, drive serve and advanced strategies for offensive and defensive play for both singles and doubles.

Credits: 1
Prerequisites: [KINA 145](#) or approval by instructor
Program: [Kinesiology](#)
Semester Offered: Spring odd years

KINA 255: Floorball

Students will develop skills in stick handling, passing and shooting. They will also be introduced to offensive and defensive strategies.

Credits: 1
Program: [Kinesiology](#)
Semester Offered: Fall

KINA 298: Individual Study Topics

Designed for the student who wishes to do independent study or research. Content and methods of study must be arranged prior to registration. May be repeated for a total of 3 credits.

Credits: 1 - 3

Prerequisites: Approval by department chair

Program: [Kinesiology](#)

KINA 299: Directed Group Study Topics

Provides academic departments an opportunity to offer courses in specialized or experimental areas, either lower or upper division, not listed in the undergraduate *Bulletin*. May be repeated for a total of 3 credits.

Credits: 1 - 3

Prerequisites: Approval by department chair

Program: [Kinesiology](#)

KINA 498: Individual Study Topics

Designed for the advanced student who wishes to do independent study or research. Content and methods of study must be arranged prior to registration. May be repeated for a total of 3 credits.

Credits: 1 - 3

Prerequisites: Approval by department chair

Program: [Kinesiology](#)

KINA 499: Directed Group Study Topics

Provides academic departments an opportunity to offer courses in specialized or experimental areas, either lower or upper division, not listed in the undergraduate *Bulletin*. May be repeated for a total of 3 credits.

Credits: 1 - 3

Prerequisites: Approval by department chair

Program: [Kinesiology](#)

KINT 110: Fundamentals of Kinesiology

A general introduction to historical and scientific foundations of physical education, exercise science and sports. Students will explore career opportunities and current issues in these fields.

Credits: 3

Program: [Kinesiology](#)

Semester Offered: Fall, odd years

KINT 131: Officiating I

Theory and practice of officiating soccer, basketball and floor hockey, including rules, interpretation of rules, officiating techniques and examinations. Part of the class requirements is to officiate college intramurals and to assist in the administration of the recreational sports program.

Credits: 2

Program: [Kinesiology](#)

Semester Offered: Spring even years

KINT 132: Officiating II

Theory and practice of officiating flag football, volleyball, and softball including rules, interpretation of rules, officiating techniques and examinations. Part of the class requirements is to officiate college intramurals and to assist in the administration of the recreational sports program.

Credits: 2

Program: [Kinesiology](#)

Semester Offered: Fall, odd years

KINT 201: Introduction to Kinesiology Research

This course is an introduction to methods of research and scholarly writing in kinesiology. Physical education, exercise science and wellness majors begin the process of senior portfolio development.

Credits: 1

Prerequisites: [ENGL 220](#)

Program: [Kinesiology](#)

Semester Offered: Spring

KINT 216: Nutrition

A study of the nutrients now known to be required in the human diet and how to best obtain these nutrients. The student will learn to correlate dietary practice with physiological consequences and understand basic physiological functions of the nutrients in food.

Credits: 3

Program: [Kinesiology](#)

Semester Offered: Fall Spring

KINT 231: Professional Activities I

Development of skills and teaching techniques of soccer, basketball, badminton and floor hockey.

Credits: 3

Program: [Kinesiology](#)

Semester Offered: Spring odd years

KINT 232: Professional Activities II

Development of skills and teaching techniques of flag football, volleyball, softball and tennis.

Credits: 3

Program: [Kinesiology](#)

Semester Offered: Fall, even years

KINT 233: Professional Activities III

Development of skills and teaching techniques of track and field, and gymnastics.

Credits: 3

Program: [Kinesiology](#)

Semester Offered: Fall, odd years

KINT 241: Care and Prevention of Athletic Injuries

An introduction to prevention and management of injuries resulting from athletic activities. Treatment options include: support methods, conditioning exercises, and therapeutic aids. Laboratory work includes bandaging and taping various athletic injuries. Course fee.

Credits: 3

Prerequisites: [BIOL 101](#)

Program: [Kinesiology](#)

Semester Offered: Fall, even years

KINT 244: Physical Education in the Elementary School

Methods and materials for directing physical education programs for the elementary school. The course is designed for students who are candidates for the elementary classroom teaching certification. Experiences in this course will enable students to become more proficient in the knowledge and skills needed to be critical thinkers, creative planners and effective practitioners in the area of elementary physical education. Includes field experience.

Credits: 3

Program: [Kinesiology](#)

Semester Offered: Fall

KINT 252: ACSM Certified Personal Trainer

This course will cover health appraisal, risk assessment and safety of exercise, fitness testing, and an overview of exercise prescription. The course will prepare students to take the ACSM's Certified Personal Trainer certification exam. Course fee.

Credits: 3

Prerequisites: [BIOL 101](#)

Program: [Kinesiology](#)

Semester Offered: Fall, odd years

KINT 260: First Aid, CPR, and First Responder Training

This course will give students the opportunity to be certified by the American Red Cross in First Aid, CPR and AED. Requires additional fee.

Credits: 2

Program: [Kinesiology](#)

Semester Offered: Spring even years

KINT 280: Internship

The Department of Kinesiology coordinates placement of students. The nature of the work depends on the student's interest. Possibilities include medical clinic, sports team, athletic training, or physical therapy. Credit earned depends on hours of work. May be repeated for a total of 6 credits. Eligible for IP grading.

Credits: 3 - 6

Prerequisites: Approval by department chair

Program: [Kinesiology](#)

Semester Offered: Fall Spring Summer

KINT 298: Individual Study Topics

Designed for the student who wishes to do independent study or research. Content and methods of study must be arranged prior to registration. May be repeated for a total of 3 credits.

Credits: 1 - 3

Prerequisites: Approval by department chair

Program: [Kinesiology](#)

KINT 299: Directed Group Study Topics

Provides academic departments an opportunity to offer courses in specialized or experimental areas, either lower or upper division, not listed in the undergraduate *Bulletin*. May be repeated for a total of 3 credits.

Credits: 1 - 3

Prerequisites: Approval by department chair

Program: [Kinesiology](#)

KINT 310: Motor Learning

Students will develop the ability to analyze motor behavior in a physical education or clinical setting, create solutions to motor problems, and coach athletes and students to better performance. Class includes laboratory activities, critical readings and a research study.

Credits: 3

Prerequisites: [BIOL 101](#)

Program: [Kinesiology](#)

Semester Offered: Fall, odd years

KINT 321: Exercise Physiology

Emphasizes physiological response and adaptation to exercise with regard to human performance limitations, training effects, and health-related benefits. Class includes laboratory activities and fitness assessments.

Credits: 3

Prerequisites: [BIOL 101](#) [BIOL 102](#)

Program: [Kinesiology](#)

Semester Offered: Fall, even years

KINT 331: Biomechanics

This course teaches students to analyze, describe, and understand motion principles of the body that relate to sport and teaching movement skills. Class includes laboratory activities and qualitative research.

Credits: 3

Prerequisites: BIOL 101 BIOL 102

Program: Kinesiology

Semester Offered: Spring even years

KINT 351: Coaching

This course is designed to introduce the student to coaching sports. It will consist of several types of learning activities: reading, lecture, discussion, videotape, and writing. This course will also prepare students to take the American Sport Education Program coaching certification exam. Requires additional fee.

Credits: 3

Prerequisites: KINT 131 or 132, 231 or 232

Program: Kinesiology

Semester Offered: Spring odd years

KINT 354: NSCA Certified Strength & Conditioning Specialist

This course is designed to apply scientific knowledge to train athletes for the primary goal of improving athletic performance. The topics covered include conducting sport-specific testing sessions, designing, and implementing safe and effective resistance training and conditioning programs and providing guidance regarding nutrition and injury prevention. Certification requires additional fee.

Credits: 3

Prerequisites: KINT 321 KINT 331

Program: Kinesiology

Semester Offered: Spring even years

KINT 420: Adapted Physical Education

A course designed to aid the educator in identifying physical, structural, functional or neurological impairments found in school-age children. Emphasis includes a survey of source material needed to plan and conduct individual, developmental and special courses in physical education. Lecture and lab.

Credits: 3

Program: Kinesiology

Semester Offered: Fall, even years

KINT 431: Physical Education Methods (K-12)

The study of methods and techniques of teaching physical education in the elementary and secondary school, including individual as well as group activities; students are required to observe and demonstrate in class.

Credits: 3

Prerequisites: KINT 231 KINT 232

Program: Kinesiology

Semester Offered: Fall, even years

KINT 450: Administration of Kinesiology

Students develop basic skills and knowledge necessary to administer daily activities of a physical education department or athletic program. Topics include facility management, intramural activities, adapted physical education, fiscal management, leadership, and legal issues.

Credits: 3

Program: Kinesiology

Semester Offered: Fall, odd years

KINT 452: ACSM Certified Health & Fitness Specialist

This course will prepare students to take the ACSM Health Fitness Specialist Exam. The course will cover basic anatomy and physiology, nutrition, fitness assessment, program design, injury prevention and first aid, behavioral change and legal guidelines. Certification requires additional fee.

Credits: 3

Prerequisites: KINT 252

Program: Kinesiology

Semester Offered: Spring odd years

KINT 460: Applied Social Research Methods

An introduction to applied research methods and their applications to the disciplines of Kinesiology and Psychology. Emphasis is on understanding basic terminology, the use of fundamental research tools, and the integration of research and practice. Students will gain experience with single subject designs, program evaluation methods, SPSS-driven data analysis, and case studies in data collection. (Also taught as PSYC 460.)

Credits: 3

Program: Kinesiology

Semester Offered: Fall

KINT 480: Internship

The Department of Kinesiology coordinates placement of students. The nature of the work depends on the student's interest. Possibilities include medical clinic, sports team, athletic training, or physical therapy. Credit earned depends on hours of work. May be repeated for a total of 6 credits. Eligible for IP grading.

Credits: 3 - 6

Prerequisites: Approval by department chair

Program: [Kinesiology](#)

Semester Offered: Fall Spring Summer

KINT 485: Sports and Fitness Management Internship

The department of Kinesiology coordinates placement of students. The nature of the work depends on the student's interest. Possibilities include high school or college athletic programs, professional sports teams, or fitness centers. Eligible for IP grading.

Credits: 6

Prerequisites: Approval by department chair

Program: [Kinesiology](#)

Semester Offered: Fall Spring Summer

KINT 490: Senior Seminar (Capstone/Portfolio)

This is a capstone course where students will study and discuss current issues and concepts within the Physical Education, Exercise Science and Health Fitness professions. In addition, the students will prepare for employment in the profession. The class also prepares students for the major exit exam.

Credits: 1

Program: [Kinesiology](#)

Semester Offered: Spring

KINT 498: Individual Study Topics

Designed for the advanced student who wishes to do independent study or research. Content and methods of study must be arranged prior to registration. May be repeated for a total of 3 credits.

Credits: 1 - 3

Prerequisites: Approval by department chair

Program: [Kinesiology](#)

KINT 499: Directed Group Study Topics

Provides academic departments an opportunity to offer courses in specialized or experimental areas, either lower or upper division, not listed in the undergraduate *Bulletin*. . May be repeated for a total of 3 credits.

Credits: 1 - 3

Prerequisites: Approval by department chair

Program: [Kinesiology](#)

Mathematics

Faculty/Staff

Gerald Springer, Chair; Jonathan Duarte, Ryan Loga

Adjunct: George Parry

Aims of the Program

First, we aim to give each student an understanding of basic mathematics and its application to solving problems expressible by algebraic equations and inequalities. Second, we aim to train students to understand the fundamental concepts of mathematics so that they can teach the subject on the elementary or secondary level. Third, we aim to give a solid foundation in the area of mathematics which will prepare students to pursue further studies in mathematics, the physical sciences, economics, and the engineering sciences.

Mathematics Degrees

B.A. Mathematics

Program: Mathematics

Type: B.A.

Required Courses

Item #	Title	Credits
MATH 141	Introduction to Probability and Statistics	3
MATH 181	Calculus I	4
MATH 182	Calculus II	4
MATH 283	Calculus III	4
MATH 311	Logic and Set Theory	3
MATH 321	Differential Equations	3
MATH 361	Introduction to Linear Algebra	3
MATH 431	Abstract Algebra	3
	Mathematics Upper Division Electives	3
Sub-Total Credits		30

Required cognate: take one of the following courses:

Item #	Title	Credits
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CSIS 110	Principles of Computer Programming I	3
CSIS 111	Principles of Computer Programming II	3
PHYS 121	General Physics I	4
PHYS 122	General Physics II	4
Sub-Total Credits		14
Total credits for degree:		44

B.S. Mathematics

Program: Mathematics

Type: B.S.

Required Courses

Item #	Title	Credits
MATH 181	Calculus I	4
MATH 182	Calculus II	4
MATH 283	Calculus III	4
MATH 311	Logic and Set Theory	3
MATH 321	Differential Equations	3
MATH 361	Introduction to Linear Algebra	3
MATH 371	History of Mathematics	3
MATH 431	Abstract Algebra	3
MATH 441	Calculus-Based Probability Theory	4
MATH 471	Real Analysis	3
	Mathematics 6 Hours Upper Division Electives	6
Sub-Total Credits		40

Required cognate: take two of the following courses:

Item #	Title	Credits
CSIS 110	Principles of Computer Programming I	3
CSIS 111	Principles of Computer Programming II	3
PHYS 121	General Physics I	4
PHYS 122	General Physics II	4
Sub-Total Credits		14

Total credits for degree: 54

B.S. Mathematics Secondary Teaching Area

Teaching Certification Program

The following mathematics major is for teaching certification only. Requirements for certification are listed in the Education section of this *Bulletin*.

You must make formal application for admittance to the Teacher Education Program. Applications are available at the Education Department office.

Program: Mathematics

Type: B.S.

Required Courses

Item #	Title	Credits
MATH 141	Introduction to Probability and Statistics	3
MATH 181	Calculus I	4
MATH 182	Calculus II	4
MATH 283	Calculus III	4
MATH 311	Logic and Set Theory	3
MATH 341	Geometry	3
MATH 361	Introduction to Linear Algebra	3
MATH 371	History of Mathematics	3
MATH 431	Abstract Algebra	3
	Mathematics 6 Hours Upper Division Electives	6
Sub-Total Credits		36
Total credits for degree:		36

Minor in Mathematics

Program: Mathematics

Type: Minor

Required Courses

Item #	Title	Credits
MATH 181	Calculus I	4
MATH 182	Calculus II	4

MATH 283	Calculus III	4
	Mathematics Minor Upper Division Electives	6
Sub-Total Credits		18
Total credits for degree:		18

Minor in Mathematics - Secondary Certification

Teaching Certification Program

The following mathematics minor is for teaching certification only. Requirements for certification are listed in the Education section of this *Bulletin*.

You must make formal application for admittance to the Teacher Education Program. Applications are available at the Education Department office.

Program: Mathematics

Type: Minor

Required Courses

Item #	Title	Credits
MATH 141	Introduction to Probability and Statistics	3
MATH 181	Calculus I	4
MATH 182	Calculus II	4
MATH 311	Logic and Set Theory	3
MATH 341	Geometry	3
MATH 361	Introduction to Linear Algebra	3
	Mathematics 6 Hours Upper Division Electives	6
Sub-Total Credits		26
Total credits for degree:		26

MATH 013: Algebra

This course provides the student with a basic understanding of addition, subtraction, multiplication and division of fractions and rational expressions in addition to an understanding of quadratic equations, inequalities and graphing.

This course meets five days a week. This course must be taken with a lab concurrently. This course does not apply toward general education or graduation requirements.

Credits: 3

Program: **Mathematics**

Semester Offered: Fall Spring

MATH 110: College Algebra

A study of algebraic expressions, equations, inequalities, and functions. Includes function composition, inverse functions, and graphs of functions. Solutions of linear and quadratic functions are presented (including complex numbers) with extension to other polynomial functions. Topics also include properties and graphs of rational functions, exponential and logarithmic functions and applications, and systems of linear equations and their solutions including matrix methods and determinants.

Credits: 3

Prerequisites: Aleks Placement Test Score of 46-60 or an SAT mathematics score of at least 530 or an ACT mathematics score of at least 21 or MATH 013 with a grade of C- or higher or permission of the department.

Program: **Mathematics**

Semester Offered: Fall Spring

MATH 121: Precalculus

A review of basic properties of functions including their domain, range, graphs, and relationship to their inverse functions. An introduction to trigonometry including basic definitions of the trigonometric functions and their properties, identities, and specific trigonometric formulae such as addition and subtraction, double-angle, and half-angle. Applications to triangles are covered utilizing the laws of sines and cosines. Other topics such as polar coordinates and conic sections are presented. This course includes an introduction to sequences, series, limits, and aspects of calculus.

Credits: 3

Prerequisites: Aleks Placement Test Score of 61-75, or a high school Algebra II course with a grade of at least a B along with an SAT mathematics score of at least 530 or an ACT mathematics score of at least 21, or MATH 110 with a grade of C- or higher, or permission of the department.

Program: **Mathematics**

Semester Offered: Spring

MATH 131: Applied Mathematics

This course covers topics from number concepts and operations, patterns and algebra, geometry and measurement, and probability and statistics with an emphasis on problem solving in the real world. The course covers fundamental aspects of mathematics as required by the Texas Department of Education.

Credits: 3

Prerequisites: Aleks Placement Test Score of 46-60 or an SAT mathematics score of at least 530 or an ACT mathematics score of at least 21 or MATH 013 with a grade of C- or higher or permission of the department.

Program: **Mathematics**

Semester Offered: Spring

MATH 141: Introduction to Probability and Statistics

An introduction to the statistical processes of sampling, descriptive statistics, presentation of data, and inferential statistics. Included are elements of probability, discrete and continuous random variables, and the probability basis for hypothesis testing. Specific statistical techniques and concepts include use of the normal distribution, the t-distribution, χ^2 distribution, analysis of variance, correlation, and linear regression.

Credits: 3

Prerequisites: Aleks Placement Test Score of 46-60 or an SAT mathematics score of at least 530 or an ACT mathematics score of at least 21 or MATH 013 with a grade of C- or higher or permission of the department.

Program: **Mathematics**

Semester Offered: Fall Spring

MATH 181: Calculus I

A study of algebraic and transcendental functions of one variable, limits, continuity, differentiation, integration, and applications of derivatives and integrals.

Credits: 4

Prerequisites: Aleks Placement Test Score of 76-100 or MATH 121 with a grade of C- or higher or a high school precalculus with a grade of at least a B and permission of the instructor.

Program: **Mathematics**

Semester Offered: Fall

MATH 182: Calculus II

A study of the calculus of transcendental functions, introduction to differential equations, applications of integration, techniques of integration, and infinite series.

Credits: 4

Prerequisites: MATH 181 with a grade of C- or higher

Program: **Mathematics**

Semester Offered: Spring

MATH 283: Calculus III

A study of vectors in two and three dimensions, motion in space, polar, cylindrical and spherical coordinate systems, functions of several variables, partial derivatives, multiple integrals, and differentiation and integration in scalar and vector fields.

Credits: 4

Prerequisites: MATH 282 with a grade of C- or higher

Program: [Mathematics](#)

Semester Offered: Fall

MATH 298: Individual Study Topics

Designed for the student who wishes to do independent study or research. Content and method of study must be arranged prior to registration. May be repeated for a total of 2 credits.

Credits: 1 - 2

Prerequisites: Approval by the department chair

Program: [Mathematics](#)

MATH 299: Directed Group Study Topics

Provides academic departments an opportunity to offer courses in specialized or experimental areas, either lower or upper division, not listed in the undergraduate *Bulletin*. May be repeated for a total of 3 credits.

Credits: 1 - 3

Prerequisites: Approval by department chair

Program: [Mathematics](#)

MATH 311: Logic and Set Theory

An introduction to mathematical proofs, elementary logic, sets, equivalence relations, and functions. The emphasis is on understanding and writing of proofs. Offered via [Southern Adventist University](#).

Credits: 3

Prerequisites: Math 182 with a grade of C- or higher

Program: [Mathematics](#)

Semester Offered: Fall Spring

MATH 321: Differential Equations

This is a study of ordinary differential equations with emphasis on the analytic methods for solving them. This course covers first-order differential equations, higher-order differential equations, modeling with differential equations, system of linear differential equations, series solutions, and Laplace transforms. Offered via [Southern Adventist University](#).

Credits: 3

Prerequisites: [MATH 182](#)

Program: [Mathematics](#)

Semester Offered: Spring

MATH 322: Partial Differential Equations

Partial differential equations, Fourier series, boundary value problems, Bessel functions, Legendre polynomials. Offered via [Southern Adventist University](#).

Credits: 3

Prerequisites: [MATH 321](#)

Program: [Mathematics](#)

Semester Offered: Fall, even years

MATH 341: Geometry

This course is a study of Euclidean and non-Euclidean geometry. The course is taught within a historical context with a chronological introduction to the history of geometry. The mathematics from ancient times to calculus, together with selected topics from the history of modern mathematics. Offered via [Southern Adventist University](#).

Credits: 3

Prerequisites: [MATH 311](#)

Program: [Mathematics](#)

Semester Offered: Fall, odd years

MATH 361: Introduction to Linear Algebra

An introduction to vector spaces and matrix theory over the field of real numbers.

Credits: 3

Prerequisites: [MATH 283](#) [MATH 311](#) also recommended.

Program: [Mathematics](#)

Semester Offered: Spring odd years

MATH 371: History of Mathematics

A survey of the development of classical mathematics from ancient times to calculus, together with selected topics from the history of modern mathematics. Offered via [Southern Adventist University](#).

Credits: 3

Prerequisites: [MATH 182](#) [MATH 311](#) also recommended.

Program: [Mathematics](#)

Semester Offered: Fall, odd years

MATH 381: Complex Variables

This course is a study of analytic functions, power series, calculus of residues, and conformal mappings. Offered via [Southern Adventist University](#).

Credits: 3

Prerequisites: [MATH 283](#) [MATH 311](#)

Program: [Mathematics](#)

Semester Offered: Spring even years

MATH 411: Numerical Analysis with Application

This is a course in numerical methods for solving mathematical problems. It covers solution of linear equations, roots of polynomial equations, interpolation and approximation, numerical differentiation and integration, solution of ordinary differential equations, and error analysis. The writing of computer programs for solving problems is a part of the course. Offered via [Southern Adventist University](#).

Credits: 3

Prerequisites: [MATH 182](#) [MATH 311](#) And knowledge of a computer programming language (CSIS 110 is recommended).

Program: [Mathematics](#)

Semester Offered: Spring odd years

MATH 431: Abstract Algebra

A study of the abstract systems: groups, rings, fields, and integral domains. Offered fall even years via [Southern Adventist University](#).

Credits: 3

Prerequisites: [MATH 311](#)

Program: [Mathematics](#)

Semester Offered: Fall

MATH 441: Calculus-Based Probability Theory

A study of the basic ideas of probability theory, discrete and continuous random variables, and their distributions. Offered fall, even years via [Southern Adventist University](#) and fall, odd years via Union College, NE.

Credits: 4

Prerequisites: [MATH 182](#)

Program: [Mathematics](#)

Semester Offered: Fall

MATH 442: Actuarial Exam P Preparation

This course prepares students to take Exam P from the Society of Actuaries. Offered via Union College, NE.

Credits: 3

Prerequisites: [MATH 441](#)

Program: [Mathematics](#)

Semester Offered: Spring even years

MATH 461: Number Theory

A study of topics including Diophantine equations, congruences, prime numbers, and applications. Emphasis is placed on proving theorems.

Credits: 3

Prerequisites: [MATH 182](#) [MATH 311](#)

Program: [Mathematics](#)

Semester Offered: Fall, even years

MATH 471: Real Analysis

This is a study of functions of one real variable, and the conditions for differentiability and for integrability of these functions. Emphasis is placed on proving theorems. Offered fall odd years via [Southern Adventist University](#).

Credits: 3

Prerequisites: [MATH 283](#) [MATH 311](#)

Program: [Mathematics](#)

Semester Offered: Fall

MATH 498: Individual Study Topics

Designed for the student who wishes to do independent study or research as well as a mathematics lecture based course covering a topic not routinely offered. Content and method of study must be arranged prior to registration. May be repeated for a total of 3 credits.

Credits: 1 - 3

Prerequisites: Approval by the department chair

Program: [Mathematics](#)

MATH 499: Directed Group Study Topics

Provides academic departments an opportunity to offer courses in specialized or experimental areas, either lower or upper division, not listed in the undergraduate *Bulletin*. May be repeated for a total of 3 credits.

Credits: 1 - 3

Prerequisites: Approval by department chair

Program: [Mathematics](#)

Medical Laboratory Science

Faculty/Staff

Peter McHenry, Chair, Department of Biological Sciences;
Arthur Schwarz, Advisor, Department of Biological Sciences

Program

Southwestern Adventist University offers a Bachelor of Science degree (131-138 semester hours) in Medical Laboratory Science. This degree is offered in affiliation with Tarleton State University in Fort Worth, Texas or Andrews University in Berrien Springs, Michigan. The first three years are completed at the Southwestern Adventist University campus. The fourth year (12-14 months) of the program consists of clinical training to be completed at one of the affiliated hospital-based programs. Tarleton State University starts classes in July and January and may require additional prerequisite classes such as physics and biochemistry. Andrews University classes start in June. The program is accredited by the Council on Allied Health Education and Accreditation in conjunction with the National Accrediting Agency for Medical Laboratory Science.

Each student must apply to the hospital training program of his/her choice, preferably early in the junior year. Acceptance into the Southwestern Adventist University program and declaration as a Medical Laboratory Science major does not imply that the student will be accepted for the senior clinical year by an affiliated hospital program. The student is encouraged to maintain a science and an overall grade point average of 3.0 (on a four-point scale) or higher. The criteria for student selection by an affiliated hospital institution include scholastic ability, completed application materials, letters of reference, and a personal interview. At least 30 of the last 36 semester hours of academic work taken prior to the senior clinical year must be taken in residence at Southwestern Adventist University. Sixteen of the 32 hours must be science courses. English as a Second Language courses are not applicable toward residency.

Medical Laboratory Science Degrees

B.S. Medical Laboratory Science

Program: [Medical Laboratory Science](#)

Type: B.S.

Required Courses

Item #	Title	Credits
BIOL 111	General Biology I	4
BIOL 112	General Biology II	4
BIOL 180	Biology Research Seminar	1
BIOL 318	Microbiology & Immunology	4
BIOL 320	Genetics	4
CHEM 111	General Chemistry I	4
CHEM 112	General Chemistry II	4
CHEM 231	Organic Chemistry I	4
CHEM 232	Organic Chemistry II	4
CSIS 102	Computer Literacy and Applications	3
	MATH 121 or 141	3
Sub-Total Credits		39

Recommended Cognates

Item #	Title	Credits
BIOL 455	Immunology	3
CHEM 431	Biochemistry I	3
PHYS 121	General Physics I	4
PHYS 122	General Physics II	4
Sub-Total Credits		14

Senior Year

Click here to link to [Andrews University Medical Laboratory Science](#) page for a complete list of classes taken during Senior year.

Click here to link to [Tarleton State University Medical Laboratory Science](#) page for a complete list of classes taken during Senior year.

Total credits for degree: 120-150

Modern Languages

Faculty/Staff

Adventist Colleges Abroad Coordinator: Elizabeth Bowser

Adjunct: Junyu Zhang

Aims of the Program

Southwestern Adventist University strongly encourages students to study a foreign language. Indeed, foreign language courses are a degree component of all B.A. programs at the University. Southwestern currently offers courses in Chinese, French, and Spanish.

According to the Council on Foreign Relations, education in the United States should focus on languages that will give Americans an economic competitive edge. The top five languages recommended include Chinese and Portuguese.

A second language opens doors to both personal and professional development and can give recent graduates an advantage when seeking employment in both national and international organizations and corporations.

Program

• Minor in Spanish, Portuguese, French, German, Arabic, Chinese, Italian and Hebrew

Minor in Spanish, Portuguese, French, German, Arabic, Chinese, Italian and Hebrew

A minor consists of 18 hours, exclusive of the elementary course or its equivalent, 12 hours of which must be upper division and includes 3 hours of literary analysis. Most often requires at least one year abroad.

Adventist Colleges Abroad

The Modern Language Department offers all students, whether majoring in languages or not, the opportunity to study overseas as part of their university education. Normally this can fit into a four-year course of study without losing credits as a result. Southwestern is a member of Adventist Colleges Abroad (ACA), administered by the North American Division of the Seventh-day Adventist Church. Through this consortium, students are able to study a language in the actual homeland of that particular language. Overseas campuses affiliated with ACA that provide foreign language instruction include:

- Universidad Adventista del Plata, Argentina (Spanish; academic year only)
- Seminar Schloss Bogenhofen, Austria (German)

- Bahia Adventist College, Brazil (Portuguese)
- Campus Advetiste du Saleve, France (French)
- Friedensau Adventist University, Germany (German; academic year only)
- Instituto Awentista Villa Aurora, Italy (Italian)
- Middle East University, Lebanon (Arabic; academic year only)
- Escuela Superior de Espanol, Spain (Spanish)
- Jerusalem Study Center, Israel (Hebrew; summer only)
- Taiwan Adventist College, Taiwan (Chinese, summer only)

Study overseas is coordinated through the History and Social Science department. More information about application, courses, and logistics is available by visiting aca-noborders.com. The ACA Bulletin is also available at the Records Office and contains a listing of courses offered on each campus.

CHIN 111: Chinese Language and Culture I

Focuses on cultivating student daily conversation abilities in the following situations: greetings, family, dates and time, hobbies, and visiting friends. Course builds students solid Chinese pronunciation system and introduces Chinese written system in terms of the number and order of character stroking and radicals.

Credits: 4

Program: [Modern Languages](#)

Semester Offered: Fall

CHIN 112: Chinese Language and Culture II

Continues to develop listening, speaking, reading, and writing skills on the novice high level.

Credits: 4

Prerequisites: Completion of CHIN 111 with a grade of C- or better, or approval of the instructor.

Program: [Modern Languages](#)

Semester Offered: Spring

CHIN 211: Intermediate Chinese I

This course builds on CHIN 111 and 112, Chinese Language and Culture I and II, and is designed for students who have completed at least one year of Mandarin or equivalent to further develop speaking, listening, reading, and writing skills.

Credits: 3

Prerequisites: Completion of CHIN 112 with a grade of C- or better, or approval of the instructor.

Program: [Modern Languages](#)

Semester Offered: Fall

CHIN 212: Intermediate Chinese II

This course continues to develop speaking, listening, reading, and writing skills.

Credits: 3

Prerequisites: Completion of CHIN 211 with a grade of C- or better, or approval of the instructor.

Program: [Modern Languages](#)

Semester Offered: Spring

FREN 111: Elementary French I

The sound and sentence patterns of French are learned through drills, dialogues, readings and models, both live and recorded. Includes 1 lab hour.

Credits: 4

Lab Hours: 1

Program: [Modern Languages](#)

Semester Offered: Fall

FREN 112: Elementary French II

The sound and sentence patterns of French are learned through drills, dialogues, readings and models, both live and recorded. Includes 1 lab hour.

Credits: 4

Lab Hours: 1

Prerequisites: [FREN 111](#)

Program: [Modern Languages](#)

Semester Offered: Spring

FREN 211: Intermediate French I

A thorough review of French grammar through oral and written composition as well as cultural and literary readings. Attention is given to the history, customs, and traditions of the French-speaking people.

Credits: 3

Lab Hours: 1

Lecture Hours: 3

Prerequisites: [FREN 112](#) or demonstrated proficiency

Program: [Modern Languages](#)

Semester Offered: Fall

FREN 212: Intermediate French II

A thorough review of French grammar through oral and written composition as well as cultural and literary readings. Attention is given to the history, customs, and traditions of the French-speaking people.

Credits: 3

Lab Hours: 1

Lecture Hours: 3

Prerequisites: [FREN 211](#) or demonstrated proficiency

Program: [Modern Languages](#)

Semester Offered: Spring

SPAN 111: Elementary Spanish I

The sound and sentence patterns of Spanish are learned through drills, dialogues, readings and models, both live and recorded. Includes 1 lab hour.

Credits: 4

Lab Hours: 1

Program: [Modern Languages](#)

Semester Offered: Fall

SPAN 112: Elementary Spanish II

The sound and sentence patterns of Spanish are learned through drills, dialogues, readings and models, both live and recorded. Includes 1 lab hour.

Credits: 4

Lab Hours: 1

Prerequisites: [SPAN 111](#) or demonstrated proficiency

Program: [Modern Languages](#)

Semester Offered: Spring

SPAN 211: Intermediate Spanish I

A thorough review of Spanish grammar through oral and written composition as well as cultural and literary readings. Attention is given to the history, customs, and traditions of the Spanish-speaking people.

Credits: 3

Lab Hours: 1

Lecture Hours: 3

Prerequisites: [SPAN 112](#) or demonstrated proficiency

Program: [Modern Languages](#)

Semester Offered: Fall

SPAN 212: Intermediate Spanish II

A thorough review of Spanish grammar through oral and written composition as well as cultural and literary readings. Attention is given to the history, customs, and traditions of the Spanish-speaking people.

Credits: 3

Lab Hours: 1

Lecture Hours: 3

Prerequisites: [SPAN 211](#) or demonstrated proficiency

Program: [Modern Languages](#)

Semester Offered: Spring

Music

Faculty/Staff

Devon Howard, Chair; Rogerio Nunes, Jonathan Wall

Adjunct: Dorla Aparicio, Steve Hubbard, Marcin Parys, Dan Totan, Ron Wilson

Aims of the Department

The students will develop the skills of listening, hearing, and identifying the elements of music.

The students will develop an understanding through music theory of the foundation of music and apply analytical skills to enrich performance.

The students will gain knowledge and understanding of music history and musical styles.

The students will be able to apply knowledge of musical styles and performance traditions to their repertoire.

The students will develop skills of technical presentation which will allow them to apply their knowledge of styles in a sensitive performance, both in solo and in ensemble work.

The students will learn methods and principles of music pedagogy.

Entrance Requirements

Incoming students in the Music Degree programs will be examined in two areas: practical piano skills and performance.

1. All incoming Majors and Minors must audition for the music faculty during the first week of their first semester in residence. There are three results to the incoming auditions: Admittance into the Music Department as a major or minor, Provisional Status (in which the student must take lessons and re-audition the following semester) and No Admittance.
2. A functional piano performance exam will be given to all incoming music majors. The details of the exam are given in the Piano Proficiency Folder and available upon request to any current or prospective student. If students are unable to pass the exam they are required to take piano lessons (MUPF 151) starting no later than the second semester in residence. Modification to the piano performance exam can be made in the event of physical handicap.
3. Success in Music Theory I (MUCT 111) requires basic background knowledge of music theory. Incoming students with theory deficiencies are encouraged to study during the previous summer. The fundamentals of music may be learned online or through self-

guided texts or software. Contact the Southwestern Adventist University music department for further information.

General Requirements for Music Majors

The guidelines found here are not intended to be exclusive or exhaustive. Students should consult the Music Major Handbook which is available from the Music Department. Other than required courses which are found in the bulletin degree descriptions, the Music Major Handbook contains the policies by which the department is operated.

1. *Ensembles*: The music majors and minors are required to take a major ensemble each semester in residence. The major ensembles are the Wind Symphony or Orchestra for instrumentalists and both University Singers and Mizpah Choraliers for singers. Keyboard majors may choose according to their talents and interests.
2. *Recitals*: The music majors and minors are required to be active members of Southwestern's Recital series each semester in residence. The students' participation in the recitals will be contingent on their performance for the required masterclasses that precede each recital.
3. *Music Juries*: The music majors will perform each semester for the fulltime music faculty. If their major performance professor is an adjunct teacher, that teacher will be included. A poor jury (Applied Music Examination) performance may result in the student being placed on probationary status as a music major or minor. Regular improvement is expected.
4. *Practice*: Majors will practice 150 hours per semester, while minors will practice 75 hours per semester in their major performance area. Weekly practice sheets detailing each practice are to be filled out and turned in at the beginning of each lesson.
5. *Continuing status*: A student's acceptance into and official continuation in the music program is contingent upon the student's satisfactory academic and performance progress. A letter from the chair, written in advisement with the major's performance teacher, will be placed in the student's file at the end of each school year, encouraging and/or noting areas needing improvement.
6. *Senior recital*: All music majors will perform a senior recital. This is normally given in the final semester of residence. A pre-senior recital, performed before the music faculty at least three weeks before the senior

recital, is required. Music minors are encouraged to perform either a senior recital or joint recital at the discretion of their major instructor.

7. *Recital attendance*: Music majors and minors will attend all faculty, general student, guest and senior recitals. These dates will all be posted by the second week of the semester.
8. *Off-campus recitals*: The music major should plan to attend at least two approved off-campus recitals each semester, minors are required to attend one.

Private lessons: The music majors and minors will take lessons from one of the teachers at Southwestern Adventist University or one provided by the school. If lessons are taken from non members of the Southwestern teaching faculty without permission, this will be considered grounds for dismissal from the program.

Music Degrees

B.A. Music

Program: Music

Type: B.A.

Required Courses

Item #	Title	Credits
MUCT 111	Music Theory I	3
MUCT 121	Ear Training and Sight Singing I	1
MUCT 151	Music Theory II	3
MUCT 161	Ear Training and Sight Singing II	1
MUCT 221	Music Theory III	3
MUCT 251	Music Theory IV	3
	MUCT 315 or MUCT 414	3
MUED 280	Basic Conducting	2
	Music Ensemble (lower division)	2
	Music Ensemble (upper division)	2
	MUHL 321, 322, 323, and 324 Options	6
	Applied Music	7
MUPF 468	Senior Recital	1

Sub-Total Credits **37**

Total credits for degree: 37

Bachelor of Music Education

Program: Music

Type: B.M.E.

Required Courses

Item #	Title	Credits
MUCT 111	Music Theory I	3
MUCT 121	Ear Training and Sight Singing I	1
MUCT 151	Music Theory II	3
MUCT 161	Ear Training and Sight Singing II	1
MUCT 221	Music Theory III	3
MUCT 251	Music Theory IV	3
MUCT 315	Form and Analysis	3
MUCT 414	Orchestration and Arranging	3
MUCT 420	Music Composition and Technology	3
MUED 253	Music in the School	3
MUED 280	Basic Conducting	2
MUED 390	Instrumental Conducting and Literature	3
MUED 391	Choral Conducting and Literature	3
MUED 475	Ensemble Management and Administration	1
	MUHL 321, 322, 323, and 324 Options	6
MUPF 200	Recital Attendance	0
Sub-Total Credits		41

Pedagogy: Choose four of the following

Item #	Title	Credits
MUED 275	Diction for Singers	2
MUED 321	Collaborative Piano	2
MUED 371	Percussion Methods & Pedagogy	2

MUED 372	Brass Methods & Pedagogy	2
MUED 373	String Methods & Pedagogy	2
MUED 374	Woodwind Methods & Pedagogy	2
MUED 451	Voice Methods & Pedagogy	2
MUED 452	Piano Methods & Pedagogy	2
Sub-Total Credits		8

Applied Music Lessons & Recital

Must be enrolled every semester in residence.

Item #	Title	Credits
	Applied Music	7
MUPF 468	Senior Recital	1
Sub-Total Credits		8

Ensembles

- Voice majors must be enrolled in University Singers each semester in residence.
- Instrumental majors must be enrolled in either Wind Symphony or Symphony Orchestra each semester in residence.
- Keyboard majors may choose any of the major ensembles to participate in, for each semester in residence.

Item #	Title	Credits
	Music Ensemble (lower division)	2
	Music Ensemble (upper division)	2
Sub-Total Credits		7

Language/Communication

Item #	Title	Credits
ENGL 121	Freshman Composition	3
ENGL 220	Research Writing	3
	ENGL 231 or ENGL 232	3
COMM 113	Oral Interpretation	3
Sub-Total Credits		12

Health and Physical Education

Item #	Title	Credits
	Kinesiology General Education Requirement	2
Sub-Total Credits		2

Mathematics

Item #	Title	Credits
MATH 131	Applied Mathematics	3
Sub-Total Credits		3

Religion

These specific classes are required for SDA certification only. For those seeking only state certification, it is strongly recommended that students enroll for a minimum of one course each school year. Applied religion is not to exceed 3 credits; 3 of the religion credits must be upper division. Transfer students from non-SDA schools must have 3 hours of religion credit per 30 credits taken in residence at Southwestern, with a minimum of 6 hours. Religion classes taken prior to enrollment at Southwestern will be considered for transfer, at least 3 hours must be from an SDA school, and non-SDA religion classes taken after enrolling at SWAU will not be transferred.

Item #	Title	Credits
RELT 101	Christian Beliefs	3
RELT 201	Bible Study Methods	3
RELH 230	History of the Seventh-day Adventist Church	3
	RELB upper division (see advisor)	3
Sub-Total Credits		12

Social and Behavior Science

Item #	Title	Credits
HIST 111	American History, 1492-1865	3
HIST 112	American History, 1866 to Present	3
PSYC 220	Human Growth and Development	3
Sub-Total Credits		9

Lab Science

Item #	Title	Credits
	Life and Physical Science General Education Requirement	8
Sub-Total Credits		8

TX State and NAD Education Certification

Item #	Title	Credits
EDUC 312	Educational Psychology	3

EDUC 326	Exceptional Children	3
EDUC 385	Philosophy of Education	3
EDUC 434	Classroom Assessment	3
EDUC 436	Classroom Management	3
EDUC 450	Teaching in the Secondary School	3
EDUC 485	Directed Teaching in Secondary School	6
Sub-Total Credits		24
Total credits for degree:		134

MUHL 321	Music in the Middle Ages & Renaissance	2
MUHL 322	Music in the Late Renaissance & Baroque	2
MUHL 323	Classic & Romantic Music	2
MUHL 324	Music in the 20th and 21st Centuries	2
	Applied Music	7
MUPF 468	Senior Recital	1
Sub-Total Credits		53
Total credits for degree:		53

Bachelor of Music

Program: Music

Type: B.Mus

Required Courses

Item #	Title	Credits
MUCT 111	Music Theory I	3
MUCT 121	Ear Training and Sight Singing I	1
MUCT 151	Music Theory II	3
MUCT 161	Ear Training and Sight Singing II	1
MUCT 221	Music Theory III	3
MUCT 251	Music Theory IV	3
MUCT 315	Form and Analysis	3
MUCT 414	Orchestration and Arranging	3
MUCT 420	Music Composition and Technology	3
MUED 280	Basic Conducting	2
MUED 390	Instrumental Conducting and Literature	3
MUED 391	Choral Conducting and Literature	3
	MUED ** Technique & Pedagogy	2
	Music Ensemble (lower division)	2
	Music Ensemble (lower division)	2

Minor in Music

Program: Music

Type: Minor

Required Courses

Item #	Title	Credits
MUCT 111	Music Theory I	3
MUCT 121	Ear Training and Sight Singing I	1
MUCT 151	Music Theory II	3
MUCT 161	Ear Training and Sight Singing II	1
MUHL 221	Survey of Music	3
MUED 280	Basic Conducting	2
	MUED 390 or MUED 391	3
	MUED ** Technique & Pedagogy	2
	Music Ensemble (lower division)	2
	Applied Music	7
Sub-Total Credits		27
Total credits for degree:		27

MUCT 111: Music Theory I

An integrated study of harmony, keyboard harmony, form, and aural training, focusing mainly on common period tonal practice.

Credits: 3

Program: Music

Semester Offered: Fall

MUCT 121: Ear Training and Sight Singing I

The lab component to accompany Music Theory I.

Credits: 1

Program: Music

Semester Offered: Fall

MUCT 151: Music Theory II

A continuation of the concepts begun in MUCT 111, focusing mainly on Classical period style.

Credits: 3

Prerequisites: MUCT 111 or permission of the instructor.

Program: Music

Semester Offered: Spring

MUCT 161: Ear Training and Sight Singing II

The lab component to accompany Music Theory II.

Credits: 1

Program: Music

Semester Offered: Spring

MUCT 221: Music Theory III

The study of harmony, form, and aural skills based on the chromatic style of the Romantic period.

Credits: 3

Prerequisites: MUCT 151 or permission of the instructor

Program: Music

Semester Offered: Fall

MUCT 251: Music Theory IV

The study of harmony, form, and composition based on a wide variety of 20th century styles.

Credits: 3

Prerequisites: MUCT 221

Program: Music

Semester Offered: Spring

MUCT 315: Form and Analysis

A study of musical form, both polyphonic and homophonic, covering the period of common practice and emphasizing the late Baroque and Classical periods.

Credits: 3

Prerequisites: MUCT 251

Program: Music

MUCT 414: Orchestration and Arranging

A course focusing on the fundamentals of instrumentation and arranging for wind, string, and percussion instruments by learning the basic elements, such as timbres, range and techniques unique to each instrument or instrument group. Students will examine and analyze scores of orchestral instrumentations to be equipped with the tools needed to arrange for a variety of ensembles.

Credits: 3

Prerequisites: MUCT 251

Program: Music

MUCT 420: Music Composition and Technology

A course focusing on smaller compositional forms, including ABA, theme and variation and sonatina, as they pertain to contemporary composition. Class will also include lectures on melodic and harmonic development, form, and listening to significant 20th century musical movements. The use of technology and its place in the classroom is studied and implemented into the core curriculum.

Credits: 3

Prerequisites: MUCT 221 or permission of the instructor

Program: Music

Semester Offered: Fall

MUED 253: Music in the School

Music in the School is a class that focuses on the practical aspects of teaching music in a diverse classroom setting. Catering to the both elementary and secondary concentration areas, this course covers learning and teaching styles, theories and strategies and the ability to engage students in a mixed classroom environment. Students will also engage in activities designed to sharpen critical thinking as well as acquaint themselves with current trends in the discipline of music education. This course will help prepare beginning teachers to understand different aspects of diversity and how they can address these differences in their teaching.

Credits: 3

Program: Music

Semester Offered: Fall

MUED 275: Diction for Singers

Introduction to proper pronunciation necessary for singers. Students will learn the International Phonetic Alphabet as well as the basic principals of Italian, French, German and English diction.

Credits: 2

Co-Requisites: Must be enrolled simultaneously in MUPF 131 or MUPF 331 (Applied Voice Lessons)

Program: Music

Semester Offered: Fall

MUED 280: Basic Conducting

The study and drill of basic conducting patterns and coordination of hand and baton techniques.

Credits: 2

Prerequisites: **MUCT 151**

Program: **Music**

Semester Offered: Fall

MUED 321: Collaborative Piano

An introduction to teaching and performing through intermediate level. Performance techniques, pedagogical methods and materials, maintenance and practical teaching experience. (Offered on alternating years)

Credits: 2

Prerequisites: **MUCT 151**

Program: **Music**

MUED 371: Percussion Methods & Pedagogy

An introduction to teaching and performing through intermediate level. Performance techniques, pedagogical methods and materials, maintenance and practical teaching experience. (Offered on alternating years)

Credits: 2

Prerequisites: **MUCT 151**

Program: **Music**

MUED 372: Brass Methods & Pedagogy

An introduction to teaching and performing through intermediate level. Performance techniques, pedagogical methods and materials, maintenance and practical teaching experience. (Offered on alternating years)

Credits: 2

Prerequisites: **MUCT 151**

Program: **Music**

MUED 373: String Methods & Pedagogy

An introduction to teaching and performing through intermediate level. Performance techniques, pedagogical methods and materials, maintenance and practical teaching experience. (Offered on alternating years)

Credits: 2

Prerequisites: **MUCT 151**

Program: **Music**

MUED 374: Woodwind Methods & Pedagogy

An introduction to teaching and performing through intermediate level. Performance techniques, pedagogical methods and materials, maintenance and practical teaching experience. (Offered on alternating years)

Credits: 2

Prerequisites: **MUCT 151**

Program: **Music**

MUED 390: Instrumental Conducting and Literature

Conducting patterns applied to elements of interpretation. Emphasis on score reading, rehearsal techniques, and conducting problems. Practical application in active musical organizations & literature study.

Credits: 3

Prerequisites: **MUED 280**

Program: **Music**

MUED 391: Choral Conducting and Literature

The study of choral repertoire from all periods as well as emphasis on score reading, rehearsal techniques, and conducting problems with regard to choral ensembles.

Credits: 3

Prerequisites: **MUED 280**

Program: **Music**

Semester Offered: Spring

MUED 451: Voice Methods & Pedagogy

An introduction to teaching and performing through intermediate level. Performance techniques, pedagogical methods and materials, maintenance and practical teaching experience. (Offered on alternating years)

Credits: 2

Prerequisites: **MUCT 151**

Program: **Music**

MUED 452: Piano Methods & Pedagogy

An introduction to teaching and performing through intermediate level. Performance techniques, pedagogical methods and materials, maintenance and practical teaching experience. (Offered on alternating years)

Credits: 2

Prerequisites: **MUCT 151**

Program: **Music**

MUED 475: Ensemble Management and Administration

The study of ensemble development, recruitment, concert planning, marketing, touring, rehearsing and other logistics in both choral and instrumental settings.

Credits: 1

Co-Requisites: To be taken with Student Teaching & Classroom Management.

Program: **Music**

Semester Offered: Spring

MUEN 113: University Singers

An ensemble fee of \$50 is applied to all participating students.

Credits: 1

Prerequisites: Permission of instructor

Program: [Music](#)

Semester Offered: Fall Spring

MUEN 115: Concert Choir

An ensemble fee of \$50 is applied to all participating students.

Credits: 1

Prerequisites: Permission of instructor

Program: [Music](#)

Semester Offered: Fall Spring

MUEN 123: Piano Ensemble

An ensemble fee of \$50 is applied to all participating students.

Credits: 1

Prerequisites: Permission of instructor

Program: [Music](#)

Semester Offered: Fall Spring

MUEN 133: Chamber Music

An ensemble fee of \$50 is applied to all participating students.

Credits: 1

Prerequisites: Permission of instructor

Program: [Music](#)

Semester Offered: Fall Spring

MUEN 145: Symphony Orchestra

An ensemble fee of \$50 is applied to all participating students.

Credits: 1

Prerequisites: Permission of instructor

Program: [Music](#)

Semester Offered: Fall Spring

MUEN 153: Southwestern Brass

An ensemble fee of \$50 is applied to all participating students.

Credits: 1

Prerequisites: Permission of instructor

Program: [Music](#)

Semester Offered: Fall Spring

MUEN 313: University Singers

An ensemble fee of \$50 is applied to all participating students.

Credits: 1

Prerequisites: Permission of instructor. 300 level courses: 4 semesters credit at the 100 level in the same ensemble.

Program: [Music](#)

Semester Offered: Fall Spring

MUEN 315: Concert Choir

An ensemble fee of \$50 is applied to all participating students.

Credits: 1

Prerequisites: Permission of instructor. 300 level courses: 4 semesters credit at the 100 level in the same ensemble.

Program: [Music](#)

Semester Offered: Fall Spring

MUEN 323: Piano Ensemble

An ensemble fee of \$50 is applied to all participating students.

Credits: 1

Prerequisites: Permission of instructor. 300 level courses: 4 semesters credit at the 100 level in the same ensemble.

Program: [Music](#)

Semester Offered: Fall Spring

MUEN 333: Chamber Music

An ensemble fee of \$50 is applied to all participating students.

Credits: 1

Prerequisites: Permission of instructor. 300 level courses: 4 semesters credit at the 100 level in the same ensemble.

Program: [Music](#)

Semester Offered: Fall Spring

MUEN 345: Symphony Orchestra

An ensemble fee of \$50 is applied to all participating students.

Credits: 1

Prerequisites: Permission of instructor. 300 level courses: 4 semesters credit at the 100 level in the same ensemble.

Program: [Music](#)

Semester Offered: Fall Spring

MUEN 353: Southwestern Brass

An ensemble fee of \$50 is applied to all participating students.

Credits: 1

Prerequisites: Permission of instructor. 300 level courses: 4 semesters credit at the 100 level in the same ensemble.

Program: [Music](#)

Semester Offered: Fall Spring

MUHL 221: Survey of Music

Music in western civilization including music fundamentals and a brief history from antiquity to the present. Presented by recordings, visuals, and lectures.

Credits: 3

Program: Music

Semester Offered: Fall

MUHL 321: Music in the Middle Ages & Renaissance

A study of the history, style, and musical forms of the Middle Ages and Renaissance periods. Music analysis and listening assignments will supplement lectures. An introduction to the library research skills used in the field of teaching and the use of primary and secondary sources including the use of online databases, as well as publication styles.

Credits: 2

Prerequisites: MUCT 251

Program: Music

Semester Offered: Fall

MUHL 322: Music in the Late Renaissance & Baroque

A study of the history, style, and musical forms of the Late Renaissance and Baroque periods. Music analysis and listening assignments will supplement lectures. An introduction to the library research skills used in the field of teaching and the use of primary and secondary sources including the use of online databases will be discussed, as well as publication styles.

Credits: 2

Prerequisites: MUHL 321

Program: Music

Semester Offered: Spring

MUHL 323: Classic & Romantic Music

A study of the history, style, and musical forms of the Classic and Romantic periods. Music analysis and listening assignments will supplement lectures. An introduction to the library research skills used in the field of teaching and the use of primary and secondary sources including the use of online databases will be discussed, as well as publication styles.

Credits: 2

Prerequisites: MUHL 322

Program: Music

Semester Offered: Fall

MUHL 324: Music in the 20th and 21st Centuries

A study of the history, style, and musical forms of the 20th and 21st Centuries. Music analysis and listening assignments will supplement lectures. An introduction to the library research skills used in the field of teaching and the use of primary and secondary sources including the use of online databases will be discussed, as well as publication styles.

Credits: 2

Prerequisites: MUHL 323

Program: Music

Semester Offered: Spring

MUPF 111: Strings

Private instruction with major teacher in piano, voice, organ, brass woodwinds, percussion, and strings are to be taken on a weekly basis.

Credits: 1

Program: Music

Semester Offered: Fall Spring

MUPF 131: Voice

Private instruction with major teacher in piano, voice, organ, brass woodwinds, percussion, and strings are to be taken on a weekly basis.

Credits: 1

Program: Music

Semester Offered: Fall Spring

MUPF 141: Brass

Private instruction with major teacher in piano, voice, organ, brass woodwinds, percussion, and strings are to be taken on a weekly basis.

Credits: 1

Program: Music

Semester Offered: Fall Spring

MUPF 151: Piano

Private instruction with major teacher in piano, voice, organ, brass woodwinds, percussion, and strings are to be taken on a weekly basis.

Credits: 1

Program: Music

Semester Offered: Fall Spring

MUPF 161: Organ

Private instruction with major teacher in piano, voice, organ, brass woodwinds, percussion, and strings are to be taken on a weekly basis.

Credits: 1

Prerequisites: Organ lessons with instructor's permission.

Program: Music

Semester Offered: Fall Spring

MUPF 171: Woodwinds

Private instruction with major teacher in piano, voice, organ, brass woodwinds, percussion, and strings are to be taken on a weekly basis.

Credits: 1

Program: Music

Semester Offered: Fall Spring

MUPF 182: Percussion

Private instruction with major teacher in piano, voice, organ, brass woodwinds, percussion, and strings are to be taken on a weekly basis.

Credits: 1

Program: Music

Semester Offered: Fall Spring

MUPF 191: Guitar

Private instruction with major teacher in piano, voice, organ, brass woodwinds, percussion, and strings are to be taken on a weekly basis.

Credits: 1

Program: Music

Semester Offered: Fall Spring

MUPF 200: Recital Attendance

Credits: 0

Program: Music

Semester Offered: Fall Spring

MUPF 211: Strings

Private instruction with major teacher in piano, voice, organ, brass woodwinds, percussion, and strings are to be taken on a weekly basis.

Credits: 1

Program: Music

Semester Offered: Fall Spring

MUPF 231: Voice

Private instruction with major teacher in piano, voice, organ, brass woodwinds, percussion, and strings are to be taken on a weekly basis.

Credits: 1

Program: Music

Semester Offered: Fall Spring

MUPF 241: Brass

Private instruction with major teacher in piano, voice, organ, brass woodwinds, percussion, and strings are to be taken on a weekly basis.

Credits: 1

Program: Music

Semester Offered: Fall Spring

MUPF 251: Piano

Private instruction with major teacher in piano, voice, organ, brass woodwinds, percussion, and strings are to be taken on a weekly basis.

Credits: 1

Program: Music

Semester Offered: Fall Spring

MUPF 261: Organ

Private instruction with major teacher in piano, voice, organ, brass woodwinds, percussion, and strings are to be taken on a weekly basis.

Credits: 1

Prerequisites: Organ lessons with instructor's permission.

Program: Music

Semester Offered: Fall Spring

MUPF 271: Woodwinds

Private instruction with major teacher in piano, voice, organ, brass woodwinds, percussion, and strings are to be taken on a weekly basis.

Credits: 1

Program: Music

Semester Offered: Fall Spring

MUPF 282: Percussion

Private instruction with major teacher in piano, voice, organ, brass woodwinds, percussion, and strings are to be taken on a weekly basis.

Credits: 1

Program: Music

Semester Offered: Fall Spring

MUPF 291: Guitar

Private instruction with major teacher in piano, voice, organ, brass woodwinds, percussion, and strings are to be taken on a weekly basis.

Credits: 1

Program: Music

Semester Offered: Fall Spring

MUPF 311: Strings

Private instruction with major teacher in piano, voice, organ, brass woodwinds, percussion, and strings are to be taken on a weekly basis.

Credits: 1

Prerequisites: Prerequisite for 300/400 level courses: 2 semester credit at 100/200 level in the same performance area.

Program: Music

Semester Offered: Fall Spring

MUPF 331: Voice

Private instruction with major teacher in piano, voice, organ, brass woodwinds, percussion, and strings are to be taken on a weekly basis.

Credits: 1

Prerequisites: Prerequisite for 300/400 level courses: 2 semester credit at 100/200 level in the same performance area.

Program: [Music](#)

Semester Offered: Fall Spring

MUPF 341: Brass

Private instruction with major teacher in piano, voice, organ, brass woodwinds, percussion, and strings are to be taken on a weekly basis.

Credits: 1

Prerequisites: Prerequisite for 300/400 level courses: 2 semester credit at 100/200 level in the same performance area.

Program: [Music](#)

Semester Offered: Fall Spring

MUPF 351: Piano

Private instruction with major teacher in piano, voice, organ, brass woodwinds, percussion, and strings are to be taken on a weekly basis.

Credits: 1

Prerequisites: Prerequisite for 300/400 level courses: 2 semester credit at 100/200 level in the same performance area.

Program: [Music](#)

Semester Offered: Fall Spring

MUPF 361: Organ

Private instruction with major teacher in piano, voice, organ, brass woodwinds, percussion, and strings are to be taken on a weekly basis.

Credits: 1

Prerequisites: Prerequisite for 300/400 level courses: 2 semester credit at 100/200 level in the same performance area. Organ lessons with instructor's permission.

Program: [Music](#)

Semester Offered: Fall Spring

MUPF 371: Woodwinds

Private instruction with major teacher in piano, voice, organ, brass woodwinds, percussion, and strings are to be taken on a weekly basis.

Credits: 1

Prerequisites: Prerequisite for 300/400 level courses: 2 semester credit at 100/200 level in the same performance area.

Program: [Music](#)

Semester Offered: Fall Spring

MUPF 382: Percussion

Private instruction with major teacher in piano, voice, organ, brass woodwinds, percussion, and strings are to be taken on a weekly basis.

Credits: 1

Prerequisites: Prerequisite for 300/400 level courses: 2 semester credit at 100/200 level in the same performance area.

Program: [Music](#)

Semester Offered: Fall Spring

MUPF 391: Guitar

Private instruction with major teacher in piano, voice, organ, brass woodwinds, percussion, and strings are to be taken on a weekly basis.

Credits: 1

Prerequisites: Prerequisite for 300/400 level courses: 2 semester credit at 100/200 level in the same performance area.

Program: [Music](#)

Semester Offered: Fall Spring

MUPF 411: Strings

Private instruction with major teacher in piano, voice, organ, brass woodwinds, percussion, and strings are to be taken on a weekly basis.

Credits: 1

Prerequisites: Prerequisite for 300/400 level courses: 2 semester credit at 100/200 level in the same performance area.

Program: [Music](#)

Semester Offered: Fall Spring

MUPF 431: Voice

Private instruction with major teacher in piano, voice, organ, brass woodwinds, percussion, and strings are to be taken on a weekly basis.

Credits: 1

Prerequisites: Prerequisite for 300/400 level courses: 2 semester credit at 100/200 level in the same performance area.

Program: [Music](#)

Semester Offered: Fall Spring

MUPF 441: Brass

Private instruction with major teacher in piano, voice, organ, brass woodwinds, percussion, and strings are to be taken on a weekly basis.

Credits: 1

Prerequisites: Prerequisite for 300/400 level courses: 2 semester credit at 100/200 level in the same performance area.

Program: [Music](#)

Semester Offered: Fall Spring

MUPF 451: Piano

Private instruction with major teacher in piano, voice, organ, brass woodwinds, percussion, and strings are to be taken on a weekly basis.

Credits: 1

Prerequisites: Prerequisite for 300/400 level courses: 2 semester credit at 100/200 level in the same performance area.

Program: **Music**

Semester Offered: Fall Spring

MUPF 461: Organ

Private instruction with major teacher in piano, voice, organ, brass woodwinds, percussion, and strings are to be taken on a weekly basis.

Credits: 1

Prerequisites: Prerequisite for 300/400 level courses: 2 semester credit at 100/200 level in the same performance area. Organ lessons with instructor's permission.

Program: **Music**

Semester Offered: Fall Spring

MUPF 468: Senior Recital

The final semester of applied music lessons for the music major, culminating in the senior recital. Instrumental students will perform in Baroque, Classic, Romantic, and 20th Century styles. Singers will perform in a minimum of three languages. Pass/fail, 0 credits

Credits: 1

Program: **Music**

Semester Offered: Fall Spring

MUPF 471: Woodwinds

Private instruction with major teacher in piano, voice, organ, brass woodwinds, percussion, and strings are to be taken on a weekly basis.

Credits: 1

Prerequisites: Prerequisite for 300/400 level courses: 2 semester credit at 100/200 level in the same performance area.

Program: **Music**

Semester Offered: Fall Spring

MUPF 482: Percussion

Private instruction with major teacher in piano, voice, organ, brass woodwinds, percussion, and strings are to be taken on a weekly basis.

Credits: 1

Prerequisites: Prerequisite for 300/400 level courses: 2 semester credit at 100/200 level in the same performance area.

Program: **Music**

Semester Offered: Fall Spring

MUPF 491: Guitar

Private instruction with major teacher in piano, voice, organ, brass woodwinds, percussion, and strings are to be taken on a weekly basis.

Credits: 1

Prerequisites: Prerequisite for 300/400 level courses: 2 semester credit at 100/200 level in the same performance area.

Program: **Music**

Semester Offered: Fall Spring

MUSC 298: Individual Study Topics

Designed for the student who wishes to do independent study or research. Content and methods of study must be arranged prior to registration. May be repeated for a total of 2 credits.

Credits: 1 - 2

Prerequisites: Approval by department chair

Program: **Music**

MUSC 299: Directed Group Study Topics

Provides academic departments an opportunity to offer courses in specialized or experimental areas, either lower or upper division, not listed in the undergraduate *Bulletin*. May be repeated for a total of 3 credits.

Credits: 1 - 3

Prerequisites: Approval by department chair

Program: **Music**

MUSC 492: Music Internship

An on-the-job, career-oriented internship program for advanced training in the following areas: conducting, accompanying, church music, school music, professional music (such as concert hall, orchestra, symphonic chorus), and private studio. The internship is limited to those students who are in their senior year of study. May be repeated for a total of 3 credits. Eligible for IP grading.

Credits: 1 - 3

Prerequisites: Permission of department chair

Program: **Music**

MUSC 498: Individual Study Topics

Designed for the student who wishes to do independent study or research. Content and methods of study must be arranged prior to registration. May be repeated for a total of 2 credits.

Credits: 1 - 2

Prerequisites: Approval by department chair

Program: **Music**

MUSC 499: Directed Group Study Topics

Provides academic departments an opportunity to offer courses in specialized or experimental areas, either lower or upper division, not listed in the undergraduate *Bulletin*. Student may be allowed to repeat the course for credit.

Credits: 1 - 3

Prerequisites: Approval by department chair

Program: **Music**

Non Departmental

UNIV 011: University Strategies

A review of strategies necessary to have a successful university experience. Required of all students on Academic Probation or Academic Suspension. Students may not withdraw from this course, and it does not apply towards graduation requirements. Pass/no pass course.

Credits: 1

Program: **Non Departmental**

UNIV 103: Experiential Program

This course is designed to allow the student missionary, taskforce worker, or summer colporter to serve in the field and, in combination with UNIV 211, maintain full-time enrollment. By this the University recognizes the legitimate educational value of this experience. Credit does not apply towards graduation requirements.

Credits: 6

Program: **Non Departmental**

UNIV 111: Wellness for Life

A study of wellness using the CREATION Health model. The course takes a whole-person approach to living healthy and will cover information related to healthy choices, rest, healthy environment, physical activity, trust, interpersonal relationships, outlook, and nutrition.

Credits: 2

Program: **Non Departmental**

Semester Offered: Fall, Spring

UNIV 201: Research in an Academic Discipline

This course is an introduction to the types and purposes of research within an academic discipline. Emphasis will be on library research and sources, including the nature of sources, their correct use, scholarly writing principles within a specific academic discipline, discipline-specific documentation rules, and critical thinking problems. Students will begin the process of senior portfolio development. (Academic Departments may designate a particular class to fulfill this requirement.)

Credits: 1

Program: **Non Departmental**

UNIV 211: Field Experience

Through this course, the student missionary or taskforce worker will earn 6 hours of credit per semester while serving in the field. A maximum of 12 hours of credit may be earned, and will be applied as elective credit toward graduation. This course is monitored by the campus chaplain, and students must make financial arrangements for this course before leaving campus. Pass/no pass course.

Credits: 6

Program: **Non Departmental**

UNIV 230: Prior Learning Assessment

This course will guide a student through the prior learning assessment process and assist him or her in developing an assessment portfolio. The portfolio will describe and document specific areas of prior college-level learning achieved through work and life experiences. The completed portfolio includes a student profile section, individual learning components, course credit petitions, and learning documentation. This course is available on-line through distance education.

Credits: 1

Prerequisites: Admission to the Distance Education

Program

Program: **Non Departmental**

Nursing

Faculty/Staff

Kerrie Kimbrow, Chair; Jean Alway, Marcia Azevedo, Fay Foreman, Lakicia Foster, Terri Gibson, Joyce Melius, Ronald Mitchell, Rima Seaman

Candy Harvey, Office Manager/Clinical Coordinator

Mission

The purpose of the Southwestern Adventist University Department of Nursing is to prepare a competent generalist in the profession of nursing with a Christian perspective of liberal arts, applied theology and natural, behavioral, and nursing sciences. The department seeks to provide a Christian environment, which facilitates growth of the student as a whole person, as a contributing member of society, and as a member of the nursing profession.

Aims of the Department

The goal of the nursing program at Southwestern Adventist University is to graduate competent, employable, safe practitioners using Differentiated Entry-level Competencies to ensure skilled practitioners who are prepared to participate in the delivery of evidenced-based nursing care, who possess the knowledge based on which to build advanced study and who are contributing members of society. Graduates of the nursing program are eligible for licensure as a Registered Nurse (RN) and are prepared for graduate study.

Accreditation

The B.S. program is fully approved by the [Texas Board of Nursing](#) (333 Guadalupe #3-460 Austin, TX 78701; 512-305-7400) and is accredited with the [Commission on Collegiate Nursing Education](#): (655 K Street, NW., Suite 750, Washington, DC 20001; 202-887-6791).

Nursing Degrees

B.S. Nursing

Note: Nursing students fulfill the writing component of the English requirement with NURS 321 and NURS 426. Competence in computer applications and communications is fulfilled in nursing courses throughout the curriculum. The General Education degree requirements for communication and computer courses are therefore waived for nursing students.

Program: Nursing

Type: B.S.

Major Requirements

Item #	Title	Credits
NURS 212	Physical Assessment	3
NURS 221	Fundamentals of Nursing	6
NURS 226	Gerontological Nursing	3
NURS 313	Pathophysiology	3
NURS 315	Medical Surgical Nursing I	5
NURS 317	Pharmacology	3
NURS 318	Child Health Nursing	4
NURS 321	Evidence Based Practice	3
NURS 335	Medical Surgical Nursing II	5
NURS 416	Medical Surgical Nursing III	4
NURS 417	Mental Health Nursing	4
NURS 418	Maternal-Newborn Nursing	4
NURS 419	Medical Surgical Nursing IV	4
NURS 426	Nursing Leadership	3
NURS 434	Population Health	3
NURS 439	Nursing Capstone	2
Sub-Total Credits		59

Required Cognate Courses

Item #	Title	Credits
BIOL 101	Anatomy & Physiology I	4
BIOL 102	Anatomy & Physiology II	4
BIOL 220	Microbiology and Immunology	4
CHEM 105	Survey of Chemistry	4
KINT 216	Nutrition	3
MATH 141	Introduction to Probability and Statistics	3
PSYC 212	General Psychology	3
PSYC 220	Human Growth and Development	3
SOCI 111	Introduction to Sociology	3
Sub-Total Credits		31

General Education Course Requirements

Item #	Title	Credits
ENGL 121	Freshman Composition	3
ENGL 220	Research Writing	3
	Literature General Education Requirement	3
	Fine Arts General Education Requirement	3
	History General Education Requirement	6
	Kinesiology General Education Requirement	2
	Religion General Education Requirement	12
UNIV 111	Wellness for Life	2
	Sub-Total Credits	34
	Total credits for degree:	124

LVN to BS Nursing Degree Requirements

With a current LVN license and at least one year work experience in a hospital or long-term care facility as an LVN, credit will be granted for the following upon successful completion of at least 12 credit hours at Southwestern Adventist University:

NURS 221	Fundamentals of Nursing	6
NURS 314	Medical-Surgical Nursing I Clinical	2
	Total:	8

Program: Nursing

Type: B.S.

Required Nursing Cognate Course

Item #	Title	Credits
BIOL 101	Anatomy & Physiology I	4
BIOL 102	Anatomy & Physiology II	4
BIOL 220	Microbiology and Immunology	4
CHEM 105	Survey of Chemistry	4
KINT 216	Nutrition	3
PSYC 212	General Psychology	3

PSYC 220	Human Growth and Development	3
SOCI 111	Introduction to Sociology	3
MATH 141	Introduction to Probability and Statistics	3
	Sub-Total Credits	31

General Education Courses Requirements

Item #	Title	Credits
ENGL 121	Freshman Composition	3
ENGL 220	Research Writing	3
	Literature General Education Requirement	3
	Fine Arts General Education Requirement	3
	History General Education Requirement	6
	Kinesiology General Education Requirement	2
	Religion General Education Requirement	12
	Sub-Total Credits	32

Item #	Title	Credits
NURS 210	LVN to BS Nursing Bridge	1
NURS 212	Physical Assessment	3
NURS 226	Gerontological Nursing	3
NURS 313	Pathophysiology	3
NURS 315	Medical Surgical Nursing I	5
NURS 317	Pharmacology	3
NURS 318	Child Health Nursing	4
NURS 321	Evidence Based Practice	3
NURS 335	Medical Surgical Nursing II	5
NURS 416	Medical Surgical Nursing III	4
NURS 417	Mental Health Nursing	4
NURS 418	Maternal-Newborn Nursing	4
NURS 419	Medical Surgical Nursing IV	4
NURS 426	Nursing Leadership	3
NURS 434	Population Health	3
NURS 439	Nursing Capstone	2
	Sub-Total Credits	54

Total credits for degree: 117

RN to BS Nursing Degree Requirements

The registered nurse with an Associate of Science degree or a diploma in nursing may enter the nursing program at Southwestern Adventist University in the third year and will usually be prepared to graduate with a Bachelor of Science degree in two to four academic semesters. After having met all general education requirements and cognate courses designated for the nursing curriculum, students may be able to earn the Bachelor of Science degree in one academic year.

Admission requirements include the following:

1. An Associate of Science degree in nursing from an accredited associate degree program with requirements in nursing and cognate/ general education courses comparable to those at Southwestern.
2. A minimum cumulative GPA of 3.0 for lower division courses and a minimum 3.0 GPA for Nursing courses.
3. Eligibility for junior standing in the university, having completed a minimum of 56 semester units (84 quarter units).
4. Current registered nurse licensure in the state of Texas.
5. Graduates of diploma programs must take a proficiency examination to validate college credit for nursing courses (or seek validation through professional review of an international transcript).
6. Proof of current American Heart Association Basic Life Support (BLS) CPR certification as Health Care Provider.

Current RN license required to enroll in the RN to BS Completion Program.

Total Upper Division credit requirements: 36 hours

Program: Nursing

Type: B.S.

Nursing Prerequisite, Cognate and General Education Courses

Item #	Title	Credits
BIOL 101	Anatomy & Physiology I	4

BIOL 102	Anatomy & Physiology II	4
BIOL 220	Microbiology and Immunology	4
CHEM 105	Survey of Chemistry	4
ENGL 121	Freshman Composition	3
ENGL 220	Research Writing	3
	Fine Arts General Education Requirement	3
	History General Education Requirement	6
	Kinesiology General Education Requirement	2
KINT 216	Nutrition	3
	Literature General Education Requirement	3
MATH 141	Introduction to Probability and Statistics	3
PSYC 212	General Psychology	3
PSYC 220	Human Growth and Development	3
	Religion General Education Requirement	12
SOCI 111	Introduction to Sociology	3
UNIV 111	Wellness for Life	2
Sub-Total Credits		65

Fall

Item #	Title	Credits
NURS 313	Pathophysiology	3
NURS 426	Nursing Leadership	3
NURS 435	Nursing Ethics	3
NURS 436	Health Care Policies and Economics	3
NURS 498	Individual Study Topics in Professional Nursing	1 - 3
Sub-Total Credits		15

Spring

Item #	Title	Credits
NURS 312	Physical Assessment for RN	3
NURS 434	Population Health	3
NURS 226	Gerontological Nursing	3

NURS 321	Evidence Based Practice	3
NURS 440	Nursing Capstone for RNs	2
Sub-Total Credits		14
Total credits for degree:		120

NURS 112: Medical Terminology

This course provides a foundation for understanding terminology used by health care providers. It includes elements of historical development of medical terms from their Latin and Greek derivations as well as acronyms and eponyms from modern language. Rules for combining word parts into medical terms, accurate pronunciation, and spelling are included. (Crosslisted with ALHE 112).

Credits: 1
 Program: [Nursing](#)
 Semester Offered: Fall

NURS 210: LVN to BS Nursing Bridge

This course is designed to introduce the LVN to the core concepts of the Nursing Program including philosophy, conceptual model, program mission and outcomes, nursing values, and professionalism. Students will have the opportunity to explore personal and professional values which have an impact on the process of transitioning into BS Nursing roles.

Credits: 1
 Program: [Nursing](#)
 Semester Offered: Spring

NURS 212: Physical Assessment

This course is designed to provide structured learning experiences to enable the student to perform focused health histories, basic general examinations, and focused assessments of body systems. Teaching/learning approaches include lecture, demonstration and practice of assessment skills, written examinations and competency testing. 3 Theory

Credits: 3
 Prerequisites: Acceptance into the nursing program.
 Program: [Nursing](#)
 Semester Offered: Spring

NURS 221: Fundamentals of Nursing

This course is designed to introduce fundamental concepts of nursing with emphasis on patient safety. Course content includes the implementation of effective communication skills with patients and nursing staff, professional role of the Christian nurse, and use of the nursing process to meet basic human needs. Students acquire basic nursing skills to implement nursing care for adult patients. 4 Theory 2 Clinical/Lab

Credits: 6
 Prerequisites: Acceptance into the nursing program
 Program: [Nursing](#)
 Semester Offered: Spring

NURS 226: Gerontological Nursing

This course is designed to examine the process of physical, psychological, mental, and sociocultural aspects of aging. The focus is on the unique health and nursing needs of older adults in providing patient centered care. Emphasis will be on supporting healthy aging and wellness, health promotion, disease prevention, disease/disability prevention based on current evidence based practices. 2.5 Theory 0.5 Clinical/Lab

Credits: 3
 Prerequisites: Acceptance into the Nursing Program
 Program: [Nursing](#)
 Semester Offered: Spring

NURS 311: Frontier Nursing

This course is designed to introduce students to health disparities and delivery of care in third world countries. Emphasis is on practice in culturally diverse settings, common tropical diseases and their management, planning and setting up of temporary clinics, including triage, individual and family assessment, pharmacy and laboratory measures, health education, whole person wellness, and integration of spiritual care and gospel ministry.

Credits: 1 - 2
 Program: [Nursing](#)
 Semester Offered: Spring

NURS 312: Physical Assessment for RN

This course is designed to provide structured learning experiences to enable the RN to BSN student to enhance their ability to perform focused health histories, examinations, and focused assessments of body systems. Teaching/learning approaches include lecture, demonstration and practice of assessment skills, written examinations and competency testing. 3 Theory

Credits: 3
 Prerequisites: Acceptance into the RN to BS program
 Program: [Nursing](#)
 Semester Offered: Spring

NURS 313: Pathophysiology

This course is designed to provide basic concepts to gain understanding of the pathophysiology of common diseases. Physiological changes from pathophysiological processes are explored within the framework of body systems. Alterations resulting from normal aging and some diseases common to children are also integrated into this course. 3 Theory

Credits: 3

Prerequisites: All 200 level nursing courses or permission of instructor

Program: [Nursing](#)

Semester Offered: Fall

NURS 314: Medical Surgical Nursing I

This course is designed to provide opportunities for the LVN-BS Nursing students to apply the nursing process in providing safe evidence based patient care. The focus is on patient-centered care of the adults with common health problems, with emphasis on whole person wellness concepts. Content and skills build on fundamental nursing competencies in the professional role of the nurse. 3 Theory

Credits: 3

Prerequisites: Acceptance into LVN to BS Nursing program

Program: [Nursing](#)

Semester Offered: Fall

NURS 315: Medical Surgical Nursing I

The student will apply the nursing process in providing evidence-based interventions to individuals with common nursing care needs in supervised settings. Emphasis is on health promotion, risk reduction, disease prevention and intervention to patients with health care problems that are high volume. Concepts of nutrition, communication human diversity, spirituality, gerontology and pharmacology are integrated into the course. 3 Theory, 2 Clinical/ Lab

Credits: 5

Prerequisites: All 200 level nursing courses

Program: [Nursing](#)

Semester Offered: Fall

NURS 317: Pharmacology

This course is designed to introduce the nursing student to pharmacological aspects of nursing. The course will focus on the basic principles and applications of pharmacology, major drug classifications, indications, and nursing considerations. 3 Theory

Credits: 3

Prerequisites: All 200 level nursing courses

Program: [Nursing](#)

Semester Offered: Fall

NURS 318: Child Health Nursing

This course applies the nursing process to the nursing of children and their families with continued emphasis on growth and development, prevention and treatment of illness in the hospital and community. Complex health problems of children are examined including congenital and acquired conditions. 3 Theory, 1 Clinical/Lab (taught in the first summer session after completion of theory)

Credits: 4

Prerequisites: All 200 nursing courses, NURS 313, NURS 314 or NURS315, and NURS 317

Program: [Nursing](#)

Semester Offered: Spring

NURS 321: Evidence Based Practice

This course focuses on the concepts and methodology involved in conducting research in nursing. Students are introduced to two research paradigms and nursing research reports for clinical utilization. 3 Theory

Credits: 3

Prerequisites: All 200 level nursing courses, or permission of the instructor. MATH 141

Program: [Nursing](#)

Semester Offered: Spring

NURS 335: Medical Surgical Nursing II

This course is designed to provide opportunities to build on previous medical/surgical nursing concepts. The focus is on providing students opportunities to apply clinical reasoning in the acute care setting integrating theory and practice. Emphasis is placed on whole person wellness and the development of the professional role of the nurse. 3 Theory 2 Clinical/Lab

Credits: 5

Prerequisites: All 200 level nursing courses, NURS 313, NURS 314 or NURS 315, and NURS 317

Program: [Nursing](#)

Semester Offered: Spring

NURS 416: Medical Surgical Nursing III

The student will build on concepts introduced in prior Medical/Surgical courses. Further application of the nursing process will be integrated into theory and practice. Content is selected to increase breadth and depth in medical/ surgical nursing. Technical skills will be developed focusing on acutely ill patients. Application of professional roles in the provision of care in progressively complex situations. Concepts of whole person wellness, clinical judgment, evidence-based practice, patient-centered care, safety, clinical reasoning and team/ collaboration will be applied. 3 Theory, 1 Clinical/Lab

Credits: 4

Prerequisites: All 200 and 300 level nursing courses

Program: [Nursing](#)

Semester Offered: Fall

NURS 417: Mental Health Nursing

This course is designed to offer experiences for students to provide evidence-based, patient-centered care to adults and adolescents in a variety of mental health settings. Opportunities are provided for students to increase competencies in clinical reasoning, caring relationships, collaborative communication, self-awareness, and legal-ethical and safety issues in mental health nursing. 3 Theory 1 Clinical/Lab

Credits: 4

Prerequisites: All 200 and 300 nursing courses

Program: [Nursing](#)

Semester Offered: Fall Spring

NURS 418: Maternal-Newborn Nursing

This course is designed to introduce students to the maternity cycle as a normal process, followed by obstetrical and neonatal complications. Attention is also given to women's reproductive health issues and menopause. 3 Theory 1 Clinical/Lab

Credits: 4

Prerequisites: All 200 and 300 level nursing courses

Program: [Nursing](#)

Semester Offered: Fall Spring

NURS 419: Medical Surgical Nursing IV

This course is designed to provide students with the opportunity to integrate professional nursing concepts and exemplars within professional nursing roles. Application of the nursing process and standards of the American Association of Critical Care Nurses (AACN) will be integrated into theory and practice. Technical skills will be developed, focusing on the acutely ill patients in the emergency and critical care environment. Concepts will be discussed involving mass casualty, disaster preparedness, and emergency preparedness as it relates to nursing care delivery. Synthesizes concepts of whole person wellness, clinical judgment, ethical-legal precepts, evidence-based practice, leadership and management, patient-centered care, safety, clinical reasoning and team/collaboration. Incorporates concepts into role development of the professional nurse. 3 Theory, 1 Clinical/Lab

Credits: 4

Prerequisites: All 200 and 300 level courses; NURS 416

Program: [Nursing](#)

Semester Offered: Spring

NURS 426: Nursing Leadership

This course is designed to provide students with the opportunity to integrate professional nursing concepts and exemplars within the professional nursing roles. Current leadership, management and change theories are examined as it related to the profession of nursing. Students will engage in activities that contribute to the development of leadership competencies. 3 Theory

Credits: 3

Prerequisites: All 200 and 300 level nursing courses

Program: [Nursing](#)

Semester Offered: Fall

NURS 434: Population Health

This course is designed to provide an introduction to population health. Emphasis is placed on whole-person wellness and interprofessional collaboration. Content includes clinical reasoning as it relates to identification of client and population risk, risk reduction, disease prevention, and health promotion across the lifespan. 2 Theory, 1 Clinical/Lab

Credits: 3

Prerequisites: MATH 141, all 300 level nursing courses, or permission of the instructor

Program: [Nursing](#)

Semester Offered: Spring

NURS 435: Nursing Ethics

This course is designed to provide students with the opportunity to both explore the ethical dimensions of health care practices and develop skills in ethical decision making. The course will assist students to clarify values and promote moral reflection in the context of contemporary health-care challenges with regards to professional standards. 3 Theory

Credits: 3

Prerequisites: For the RN to BS Nursing Student, or permission of the instructor.

Program: [Nursing](#)

NURS 436: Health Care Policies and Economics

This course is designed to provide an overview of development, challenges and opportunities of the nursing profession as related to policy and economics. The course will address how to identify gaps in policy knowledge and provide opportunity for students to engage in processes that influence policy decisions at the local, state, regional and national levels that affects the profession of nursing. 3 Theory

Credits: 3

Prerequisites: For the RN to BS Nursing Student, or permission of the instructor.

Program: [Nursing](#)

NURS 439: Nursing Capstone

This course is to be taken during the final semester of the nursing program. This is the capstone course for the BSN degree program. The course focuses on the synthesis and reflection of knowledge and the completion of the e-portfolio. The capstone course also provides structure and guidance to prepare the student for the NCLEX exam. 2 hour seminar. Pass/No pass course.

Credits: 2

Prerequisites: **NURS 416** **NURS 426** All 200 and 300 level nursing courses

Co-Requisites: final course(s) of nursing degree

Program: **Nursing**

Semester Offered: Fall Spring

NURS 440: Nursing Capstone for RNs

A capstone course designed for BS Nursing completion students. The course focuses on the synthesis and reflection of knowledge and the completion of the e-portfolio. Pass/no pass course. 2 Seminar.

Credits: 2

Program: **Nursing**

Semester Offered: Spring

NURS 498: Individual Study Topics in Professional Nursing

Subject of study is selected in conference between student and faculty member. Course requirements may consist of independent study, preceptored clinical experiences and/or research. Content and behavioral objectives must be approved. Student must submit a signed Independent Class form, available on the SWAU website, to the Vice President for Academic Administration. Request must be approved and submitted to the Records Office by the last day to add a class. May be repeated.

Credits: 1 - 3

Prerequisites: Permission of Instructor and VP for Academic Administration

Program: **Nursing**

NURS 499: Directed Group Study Topics

Provides academic departments an opportunity to offer courses in specialized or experimental areas, either lower or upper division, not listed in the undergraduate *Bulletin*. May be repeated for a total of 3 credits.

Credits: 1 - 3

Prerequisites: Approval by department chair

Program: **Nursing**

Pre-Professional

Southwestern Adventist University offers preparation for a number of professional programs that are offered at other universities. Certain professional programs build upon a four-year baccalaureate degree from Southwestern Adventist University. Others require one, two, or three years of undergraduate preparation at Southwestern Adventist University before transferring to complete the program requirements. In either case these professional programs typically include a specific list of required courses.

Students in pre-professional programs that involve a four-year degree from Southwestern Adventist University are encouraged to consult routinely with their major advisor and their pre-professional advisor.

For further information including program prerequisite requirements access the given URL and meet with the pre-professional advisor.

Allied Health Foundations

This program provides an efficient path for students who wish to apply to the School of Allied Health Professions at Loma Linda University for a baccalaureate degree in one of several allied health fields. A student at Southwestern will complete the 60-hr Associate of Science degree. The requirements for this degree are found in the Core Curriculum for a Bachelor's Degree in this *Bulletin*.

With the guidance of an Allied Health advisor, the student will complete the courses that meet the entrance requirements of the program to which they seek entrance. A cumulative grade point average of at least 3.0 or even higher is necessary in order to be competitive for acceptance at most clinical allied health programs at Loma Linda. No grade lower than a "C" can be transferred to another program.

Information on various allied health careers can be found at [Loma Linda University's School of Allied Health Professions website](#):

Pre-Dentistry

Advisors: **Arthur Schwarz, Gerald Springer**

A Dentistry program is a graduate program building upon any four-year baccalaureate degree from Southwestern Adventist University that includes a specified list of prerequisites. Southwestern Adventist University coordinates with the medical program at [Loma Linda University](#).

Pre-Engineering

Advisor: **Ryan Loga**

Currently Southwestern Adventist University coordinates with Walla Walla University and Andrews University to offer the first year of an undergraduate program in Engineering.

Pre-Law

Advisor: **Elizabeth Bowser**

A graduate degree in law can be built on any four-year degree at Southwestern Adventist University. There are no specific prerequisite courses. However, a degree in the social sciences (such as English, History or Social Studies) can be a particularly useful background for law school.

Pre-Medicine

Advisor: **Peter McHenry, Arthur Schwarz, Gerald Springer**

A Medical Doctor program is a graduate program building upon any four-year baccalaureate degree from Southwestern Adventist University that includes a specified list of prerequisites. Southwestern Adventist University coordinates with the medical program at Loma Linda University.

Pre-Pharmacy

Advisor: **Amy McHenry**

A Doctor of Pharmacy program is a graduate program building upon any four-year baccalaureate degree from Southwestern Adventist University that includes a specified list of prerequisites. Southwestern Adventist University coordinates with the pharmacy program at Loma Linda University.

Pre-Physical Therapy

Advisor: **Jared Wood, Vesa Naukkarinen**

There are two paths available. The first involves completing a B. S. degree in programs such as Exercise Science or Biology, which include many of the prerequisites for admission to doctoral programs in Physical Therapy. Alternatively, one may undertake a three-year program of prerequisites that will prepare a student to transfer to Andrews' or Loma Linda's Physical Therapy programs.

Click for Information on [Andrews University's program](#)

Click for Information on [Loma Linda University's program](#)

Other Pre-professional Programs and Advisors		
Programs	Advisors	Major

Pre-Respiratory Care	Jared Wood	Biology
Pre-Chiropractic	Peter McHenry	Biology
Pre-Dental Hygiene	Jared Wood	Biology
Pre-Health Administration	Jared Wood	Biology
Pre-Health Informatics	Jared Wood	Biology
Pre-Nutrition	Amy McHenry	Biology
Pre-Occupational Therapy	Amy McHenry	Biology
Pre-Optometry	Amy McHenry	Biology
Pre-Orthotics and Prosthetics	Jared Wood	Biology
Pre-Osteopathy	Peter McHenry	Biology
pre-Physician Assistant	Amy McHenry	Biology
Pre-Public Health	Amy McHenry	Biology
Pre-Speech Pathology	Amy McHenry	Biology
Pre-Veterinary Medicine	Peter McHenry	Biology
Pre-X-Ray Technician	Jared Wood	Biology

Pre-professional Program Courses

These courses are offered as Southwestern Adventist University courses taught in a distance learning format by professors from Loma Linda University and Walla Walla University.

ALHE 112: Medical Terminology

This course provides a foundation for understanding terminology used by health care providers. It includes elements of historical development of medical terms from their Latin and Greek derivations as well as acronyms and eponyms from modern language. Rules for combining word parts into medical terms, accurate pronunciation, and spelling are included. (Crosslisted with NURS 112).

Credits: 1
 Program: **Pre-Professional**
 Semester Offered: Fall

COMD 284: Introduction to Speech-Language Pathology and Audiology

Major types of disorders. Etiology and treatment. Survey course for students majoring in speech-language pathology and audiology, prospective teachers, and others who may encounter speech-language or hearing disorders in their professions. Taught through Loma Linda University, School of Allied Health Profession.

Credits: 2
 Program: **Pre-Professional**
 Semester Offered: Spring

DENT 201: Introduction to Dentistry

This course introduces students into the field of dentistry and dentistry related disciplines. Students will learn about dental anatomy and disease, as well as radiology and pharmacology as it relates to dentistry. Students will become aware of dental specialties such as Oral Surgery, Orthodontics, Endodontics and Pedodontics, as well as responsibility of those in various ancillary positions in a typical dental practice. Students will gain practice carving a tooth as well as learn about the management of a dental practice. A field trip to a local office is required. Pass/no pass course.

Credits: 1
 Program: **Pre-Professional**
 Semester Offered: Spring

ENGR 111: Introduction to Engineering and Design

Introduction to the profession of engineering, computer based engineering, calculation tools, analysis of team dynamics, the design process, systems engineering, and principles of project management. This is taught via distance learning from Walla Walla University, Edward F. Cross School of Engineering.

Credits: 2
 Program: **Pre-Professional**
 Semester Offered: Fall

ENGR 115: Introduction to CAD

Introduction to computer aided design, and computer aided engineering (CAD and CAE). Includes coverage of hand sketching, drafting standards, pictorial representations, and principles of descriptive geometry. Covers both 2- and 3-D CAD, discipline specific computer applications will be represented as available. Taught during the first 10 weeks of the semester live via webcast from Walla Walla University, Edward F. Cross School of Engineering.

Credits: 1
 Program: **Pre-Professional**
 Semester Offered: Spring

ENGR 116: CAD Project

A full-scale project emphasizing teamwork where possible, and written and oral engineering communications. The project is introduced in ENGR 111 and builds on the skills developed in ENGR 115. Taught during the last five weeks of the semester through Walla Walla University, Edward F. Cross School of Engineering.

Credits: 1

Program: **Pre-Professional**

Semester Offered: Fall, Spring

Psychology

Faculty/Staff

Donna Berkner, Chair; Mark Aldridge, Program Director; Lynette Frantzen, Cheryl The

Adjunct: Jeremy Carter, Ken Jones, Marcel Sargeant

Aims of the Program

The goals of the department are to serve those who are interested in majoring in psychology and those who wish to pursue advanced degrees in the areas of psychology and counseling. This degree is designed as a basis for graduate work that provides a basic understanding of Christian psychological principles and to provide a background for a wide variety of careers that involve working with people.

Psychology Degrees

B.S. Psychology emphasis in School Guidance

Bachelors of Science in Psychology, emphasis School Guidance

This School Guidance emphasis will prepare you to complete a number of classes in education that are required by the State of Texas to fulfill course requirement before taking the State Exam for Educators (TExES). Please note that the State of Texas requires candidates who desire a certificate in school counseling must have two years of successful teaching and in possession of a valid teaching certificate issued by the State of Texas and a Masters degree in School Guidance/School Counseling. The intent of this composite is to prepare you to take the State Exams (EC-6) that consists of two tests (Pedagogy and Professional Responsibility

and Generalist EC-6), you will be certified to teach in the State of Texas, after passing these tests and successfully completing all the courses or additional requirement as required by any Alternative Certification Program (courses may vary by Alternative Certification Program).

- Take the THEA exam and meet a minimum score of 260 in reading, 230 in math, and 220 in writing. Passing standards are subject to change, as the State Board of Education changes minimum standards. Note: You are exempt from the THEA if you earn a score of 550 in both areas or better in the areas of

Math and Verbal on your SAT or if your ACT score had a composite of 21 with at least a 19 in Math and Language.

- Candidates must have a minimum cumulative GPA of 3.0 or higher
- Before acceptance all students must submit to, pay for, and pass a criminal background check
 - Candidate is responsible for initiating the application process, that is available in the Education & Psychology Department. All applicants will be accompanied by:
 - statement of purpose -a one page typed essay describing reasons for desiring profession in the teaching field
 - two letters of recommendation from individuals other than relatives. Preferably, these recommendations will come from Southwestern Adventist University faculty members not in the Education and Psychology Department, or other work supervisor.
- All potential candidates will have an interview with the Education/Psychology Department before being fully accepted into the School Guidance emphasis. See Technical Standards in Pre-Service Teacher Candidate Handbook.

Degree Plan

After the student has been admitted to this program, they should develop a degree plan with their major advisor and the Department of Education and Psychology. The plan will show the declared major with certification area, the work completed and the remaining requirements for the degree. Copies of the degree plan will be filed with the Registrar's Office, Education and Psychology Department and the major advisor.

Retention in this Program

To be retained in this program, students must:

- Maintain a cumulative 3.00 grade point average in all course work.
- Give evidence of satisfactory professional growth.
- Show promising development in field experiences.
- Demonstrate behavior that is ethically and morally responsible.

Program: Psychology

Type: B.S.

Psychology Courses

Item #	Title	Credits
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PSYC 212	General Psychology	3
PSYC 220	Human Growth and Development	3
PSYC 222	Ethics for Mental Health Professionals	3
PSYC 322	Adolescent Psychology	3
PSYC 326	Exceptional Children	3
PSYC 340	Abnormal Psychology	3
PSYC 360	Personality Theory & Development	3
PSYC 444	Courtship, Marriage, and Family	3
PSYC 445	Deviant Behavior	3
PSYC 460	Applied Social Research Methods	3
PSYC 470	Counseling Theory & Techniques	3
Sub-Total Credits		33

Education Courses

Item #	Title	Credits
EDUC 312	Educational Psychology	3
EDUC 350	Educational Technology	3
EDUC 364	Kindergarten Materials and Methods	3
EDUC 382	Reading and Language Arts in the Elementary School	3
EDUC 385	Philosophy of Education	3
EDUC 386	Mathematics in the Elementary School	3
EDUC 414	Science and Health in the Elementary School	3
EDUC 418	Legal Foundations of Education	3
EDUC 419	Social Studies in the Elementary School	3
EDUC 424	Language Arts Essential Skills in the Elementary School	3
EDUC 434	Classroom Assessment	3
EDUC 436	Classroom Management	3
EDUC 475	Directed Teaching in Elementary School	3 - 6

Sub-Total Credits		39-42
Required Cognates		
Item #	Title	Credits
POLS 211	National and Texas Constitutions	3
MATH 141	Introduction to Probability and Statistics	3
Sub-Total Credits		6
Total credits for degree:		78-81

B.S. Psychology with concentration in Case Management

This concentration is intended for individuals wanting to enter the field of work immediately after graduation at places such as juvenile detention centers, human resource management and social services institutions. These individuals can still pursue graduate studies in counseling or clinical psychology with this concentration.

Program: Psychology

Type: B.S.

Psychology B.S. Requirements

Item #	Title	Credits
Psychology Core Courses		42
Sub-Total Credits		42

Required Courses

Item #	Title	Credits
BUAD 295	Health Care Management	1
BUAD 301	Principles of Management	3
PSYC 233	Social Psychology	3
PSYC 330	Life Transitions, Grief and Loss	3
PSYC 430	Addictive Behaviors	3
Sub-Total Credits		13
Total credits for degree:		55

B.S. Psychology with concentration in General Psychology

Program: Psychology

Type: B.S.

Psychology B.S. Requirements

Item #	Title	Credits
	Psychology Core Courses	42
Sub-Total Credits		42

B.S. Psychology with concentration in General Psychology

This concentration is intended for individuals wanting to continue in graduate studies in counseling or clinical psychology immediately after graduation.

Electives to be selected from the following courses

Item #	Title	Credits
PSYC 233	Social Psychology	3
PSYC 320	Parenting Skills	3
PSYC 326	Exceptional Children	3
PSYC 330	Life Transitions, Grief and Loss	3
PSYC 430	Addictive Behaviors	3
PSYC 480	Psychology Internship	1 - 6
PSYC 498	Individual Study Topics	1 - 3
Sub-Total Credits		13
Total credits for degree:		55

B.S. Psychology with concentration in Marriage and Family

This concentration is intended for individuals wanting to enter the field of work immediately after graduation at places such as social services institutions. These individuals can still pursue graduate studies in marriage and family or any counseling area.

Program: Psychology

Type: B.S.

Psychology B.S. Requirements

Item #	Title	Credits
	Psychology Core Courses	42
Sub-Total Credits		42

Required Courses

Item #	Title	Credits
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BUAD 295	Health Care Management	1
PSYC 320	Parenting Skills	3
PSYC 233	Social Psychology	3
PSYC 330	Life Transitions, Grief and Loss	3
PSYC 430	Addictive Behaviors	3
Sub-Total Credits		13

Required Cognates

Item #	Title	Credits
MATH 141	Introduction to Probability and Statistics	3
Sub-Total Credits		3
Total credits for degree:		58

Minor in Psychology

Program: Psychology

Type: Minor

Required Courses

Item #	Title	Credits
PSYC 212	General Psychology	3
PSYC 220	Human Growth and Development	3
PSYC 330	Life Transitions, Grief and Loss	3
PSYC 340	Abnormal Psychology	3
	Psychology Minor Upper Division Electives	9
Sub-Total Credits		21
Total credits for degree:		21

PSYC 212: General Psychology

A beginning course in the basic principles and concepts of psychology. Attention given to the concepts of Christian psychology. Recommended as a preliminary to other courses in the field.

Credits: 3

Program: Psychology

Semester Offered: Fall Spring

PSYC 220: Human Growth and Development

A study of the basic principles of human growth and development across the life span. The environmental and psychological functions of human development are examined. Includes case studies.

Credits: 3

Program: [Psychology](#)

Semester Offered: Fall Spring

PSYC 222: Ethics for Mental Health Professionals

An overview of ethical and legal issues related to human services professions. Topics include responsibility, competency, duty to warn, confidentiality, professional relationships, and professional licensing standards and procedures. As part of the course students will have a major term paper that will be used to introduce the research skills used in the field of psychology. Students will learn to use primary and secondary sources as well as psychology journals, indexes, and databases as needed for psychology research papers. Psychology majors will begin the process of senior portfolio development. Must be taken in the sophomore year to comply with portfolio requirements.

Credits: 3

Program: [Psychology](#)

Semester Offered: Spring

PSYC 233: Social Psychology

A study of the basic principles and concepts required in understanding group dynamics and social behavior, focusing on the different types of social setting and influencing factors on behavior. This course deals with social interactions, including their origins and their effects on the individual. A look at how it impacts government policy, group behavior and organizations.

Credits: 3

Program: [Psychology](#)

Semester Offered: Spring

PSYC 298: Individual Study Topics

A study in an area of student interest under the direction of a staff member. This study may involve research, laboratory or library work. Content and method of study must be arranged prior to registration. May be repeated for a total of 3 credits.

Credits: 1 - 3

Prerequisites: Approval of department director

Program: [Psychology](#)

PSYC 299: Directed Group Study Topics

Provides academic departments an opportunity to offer courses in specialized or experimental areas, either lower or upper division, not listed in the undergraduate *Bulletin*. May be repeated for a total of 3 credits.

Credits: 1 - 3

Prerequisites: Approval of department chair.

Program: [Psychology](#)

PSYC 320: Parenting Skills

A study of the care and guidance of the young child. Strategies for handling problems and behaviors are discussed.

Credits: 3

Program: [Psychology](#)

Semester Offered: Fall

PSYC 322: Adolescent Psychology

An overview of the physical, mental and emotional phases of human development during the adolescent years. A study of the environmental and educational problems of the teenager. (Also taught as EDUC 322.)

Credits: 3

Program: [Psychology](#)

Semester Offered: Spring

PSYC 326: Exceptional Children

Provides students with skills to include children of all abilities through appropriate arrangement of the environment. Study will include the characteristics, assessment, admission, review, and dismissal processes for special students requiring individualized or specialized programs. (Also taught as EDUC 326.)

Credits: 3

Program: [Psychology](#)

Semester Offered: Spring

PSYC 330: Life Transitions, Grief and Loss

A study of conceptual models and theories about death, dying, grief and loss. Cultivate and foster affective development and sensitivity to issues concerning death, dying, and grief.

Credits: 3

Program: [Psychology](#)

Semester Offered: Spring

PSYC 331: Multicultural Perspectives

A study of racial and ethnic groups in American society featuring an examination of their history, cultural heritage, contribution, struggles, and hopes for the future. Emphasis will be placed on a strength-based analysis of diverse groups. Focus will also address working with families in a classroom and counseling setting to best serve a multicultural society. Course content will guide students to be better informed and proactive in a multicultural society.

Credits: 3

Program: [Psychology](#)

Semester Offered: Spring

PSYC 338: Conflict Resolution

A study of practical applications of conflict and dispute resolution. The course focuses on developing practical problem solving and decision making skills while exploring issues of self-awareness, identity, culture, power, race, gender, violence, and forgiveness. Workplace disputes are explored and addressed from a perspective emphasizing preventive models.

Credits: 3

Prerequisites: Recommended prerequisites: PSYC 112, SOCI 111

Program: [Psychology](#)

Semester Offered: Fall

PSYC 340: Abnormal Psychology

A study of maladaptive and disorganized behavior patterns within a personal and social context, including their development, symptoms, and treatment. Focus on the various etiologies of mental illness and treatment modalities. Class must be taken in the junior year, and will serve as checkpoint #1 for the psychology department e-portfolio.

Credits: 3

Prerequisites: [PSYC 212](#)

Program: [Psychology](#)

Semester Offered: Spring

PSYC 360: Personality Theory & Development

A study of major theories and the development of personality.

Credits: 3

Program: [Psychology](#)

Semester Offered: Fall

PSYC 410: Group Therapy

A study of the group dynamics, the stages of group development, group interventions, and the selection of group participants. Students will gain the essential knowledge and skills for understanding, organizing, and working with groups.

Credits: 3

Program: [Psychology](#)

Semester Offered: Fall

PSYC 415: Crisis, Intervention, Assessment, and Treatment

A study of current issues as they relate to crisis intervention. Students will apply crisis intervention theory and models of intervention to various crisis situations. Students will become familiar with assessment and treatment interventions for individuals, families, and groups of varying ages, multicultural backgrounds, and other special needs.

Credits: 3

Program: [Psychology](#)

Semester Offered: Fall

PSYC 430: Addictive Behaviors

A study of addiction and addictive behaviors. This course provides a comprehensive overview of current theories about addictions, their prevention, and treatment. In addition, it will highlight controversies surrounding behavioral addictions, ways to link theory and practice, and motivational factors in personal change.

Credits: 3

Program: [Psychology](#)

Semester Offered: Fall

PSYC 444: Courtship, Marriage, and Family

Emphasis on dating, engagement, marriage, and successful family life-styles. Good communication and relationship skills are studied.

Credits: 3

Program: [Psychology](#)

Semester Offered: Fall

PSYC 445: Deviant Behavior

An examination of what deviant behavior is (including specific examples of behavior which is so labeled) and social explanations for its existence.

Credits: 3

Program: [Psychology](#)

Semester Offered: Spring

PSYC 460: Applied Social Research Methods

An introduction to applied research methods and their applications to the disciplines of Physical Education, and Psychology. Emphasis is on understanding basic terminology, the use of fundamental research tools, and the integration of research and practice. Students will gain experience with single subject designs, program evaluation methods, SPSS-driven data analysis, and case studies in data collection. This class meets the requirements for the Computer Competencies for General Education (Also taught as KINT 460.)

Credits: 3

Prerequisites: **MATH 141**

Program: **Psychology**

Semester Offered: Fall

PSYC 470: Counseling Theory & Techniques

A study of various theories and techniques used in the counseling process. Study will also include techniques for interviews, administration, questionnaires, and records used in guidance work by teachers, ministers, counselors, and psychologists. Study will include the ethics and principles involved in the counseling process as they relate to the counselor, as well as the situation, and is the final portfolio checkpoint. This class meets the requirements for the Communication Competencies for General Education. (Spring) Senior year only.

Credits: 3

Prerequisites: **PSYC 340** Senior Status

Program: **Psychology**

Semester Offered: Spring

PSYC 480: Psychology Internship

This course is designed to provide the student with the opportunity for training in practical work situations and areas of interest dealing in the area of psychology. There are 45 clock hours required for each credit hour. Admission is limited to students who have completed at least 24 hours in psychology. The Psychology Internship must be student driven, but will require departmental approval on a case by case basis. Pass/fail course.

Credits: 1 - 6

Prerequisites: Senior status, cumulative GPA 3.0, and approval of department director.

Program: **Psychology**

PSYC 498: Individual Study Topics

A study in an area of student interest under the direction of a staff member. This study may involve research, laboratory or library work. Content and method of study must be arranged prior to registration. May be repeated for a total of 3 credits.

Credits: 1 - 3

Prerequisites: Approval of the department director

Program: **Psychology**

PSYC 499: Directed Group Study

A study in an area of student interest under the direction of a staff member. This study may involve research, laboratory, or library work. Content and method of study must be arranged prior to registration. May be repeated for a total of 3 credits.

Credits: 1 - 3

Prerequisites: Approval of department chair

Program: **Psychology**

Religion

Faculty/Staff

Joaquim Azevedo, Chair; Michael Campbell, Jorge Rico, Buster Swoopes, Jr

Adjunct: Russ Laughlin, Theodore Stewart

Aims of the Department

Religious Education at Southwestern Adventist University facilitates the understanding, appreciation, and application of:

- the Bible
- a Christian worldview
- Seventh-day Adventism

Specifically, our theological training emphasizes a Christ-centered and Bible-based education on campus, in the classroom, and in the community, balancing theory and practice and harmonizing the dynamics of the local church and global mission within a specifically Seventh-day Adventist context. We integrate a multifaceted matrix of Inspiration -Implication Implementation - Involvement.

Religion Degrees

B.A. Religion

The Religion Department provides a Christ-centered and Bible-based religious education that is in line with the global mission and message of the Seventh-day Adventist Church. Emphasis is placed in such areas as biblical understanding, personal application, and service to the church. Classes in this major are typically small, which provides ample time for interaction between professor and student. The program also offers the opportunity to add other areas (minors) that best fit the academic and professional goals of the student.

Our students often double-major in a related field and they can pursue graduate work and employment in various field of studies. Many of our graduates are accepted into the Seminary or enter other graduate programs like chaplaincy, counseling, or teaching. Some are hired as Bible teachers in various Adventist educational institutions or dorm deans in Adventist academies. They also become qualified to work as missionaries, colporteur directors, or religion editors in publishing companies.

The department welcomes persons who sense a call to full-time ministry, and who are moved to offer their lives in this avenue to God and humanity. The faculty assists applicants who wish to evaluate and deepen their experience as well as to explore the expanding opportunities for service. The department will not recommend to the ministry any student who has not completed the course of study as outlined or who has a GPA that is less than 2.5, which is the minimum requirement for entrance to the SDA Theological Seminary. It is the student's personal responsibility to plan a course of study that includes all requirements for degree sought.

Completion of the major in Theology meets the guidelines stipulated by the Adventist Church and the minimal requirements for admission to the Seminary and entrance into the ministry.

Program: Religion

Type: B.A.

Item #	Title	Credits
RELT 101	Christian Beliefs	3
RELT 207	Research in Religion	1
RELB 211	Life and Teachings of Jesus	3
RELP 220	Christian Witnessing	3
RELH 230	History of the Seventh-day Adventist Church	3
RELB 313	Prophetic Studies	3
RELH 331	History of Christianity I	3
RELH 332	History of Christianity II	3
	RELB 410 or RELB 411	3
	RELB Electives	9
	Sub-Total Credits	34
	Total credits for degree:	34

B.A. Theology

This program is designed to prepare pastors who are able to integrate theological knowledge with pastoral training for excellence in ministry. Emphasis is placed on such areas as biblical understanding and personal application, church leadership and administration, evangelism, and pastoral service to the church.

The program in pastoral ministry is focused on facilitating the development of the student as a:

- Growing Christian
- Church Leader/Administrator
- Pastor-Teacher and Equipper
- Pastor-Servant
- Soul Winner

This program follows a special two-stage composite sequence, each stage approximately two years in length. During the first stage (freshman and sophomore years), attention is concentrated on fulfilling the requirements of the core curriculum of the University, together with introductory Religion classes. In this first stage, freshman and sophomore students will be invited to participate in a church service, starting in the spring of their freshman year. A ministry in a local church will be assigned to the student. The expected participation is of 02-03 Sabbaths per month in a respective ministry, depending on their agreement with the local pastor.

During the sophomore year, students begin the study of New Testament Greek, and apply for acceptance into the Pastoral Ministry Certification Program. Benefits of membership in the program include eligibility for higher departmental scholarships, an official departmental certificate and participation in the pastoral internship program, and increased likelihood of future employment by a conference. It also grants preferred opportunities for summer ministry opportunities.

The second stage (junior and senior years) provides for completion of requirements for the bachelor of arts degree, including specific professional studies. It is also the period when the student becomes more involved in practical aspects of ministerial training.

One goal of the Religion Department is to prepare students to commence service as pastors. Conference presidents seek graduates from Southwestern Adventist University who will be able to function as pastor-evangelists immediately upon graduation. For this reason, it is required that theology students complete Field Evangelism (RELP 425), preferably during the summer prior to taking Pastoral Ministry (RELP 423, 424). The Field Evangelism course (RELP

425) includes participation in a major evangelistic crusade under the mentorship of a seasoned evangelist. This is to be followed by a personal evangelistic effort in a church within the conference where the major crusade was held. Those who have completed both of these programs before graduation are likely to be considered for conference employment ahead of others. The course Field Evangelism (RELP 425) is an integral part of the theology degree. Theology graduates will subsequently seek employment as Pastors in local conferences, pursue careers in chaplaincy, or proceed to the Seminary for in-depth training after field experience (e.g., Associate Pastor with a conference).

Theology students are encouraged to become involved in witnessing and in other spiritual activities throughout their time in college. However, the last two years are particularly focused on ministry as they are required to participate in the Pastoral Internship Program. Those who are accepted in the Pastoral Ministry Certification Program will be assigned to churches mainly within the Dallas-Fort Worth area to gain practical pastoral experience. During this time, students will need to make transportation arrangements to ensure complete participation. This program is coordinated by the Southwestern Adventist University Religion Department in conjunction with the Texas Conference and the Southwest Region Conference.

Another goal of the department is to prepare students to be efficient church administrators and strong supporters/promoters of Adventist Christian Education in their respective congregations. For this reason, they are strongly encouraged to consider taking some of the courses listed as Recommended Cognates in order to be better equipped to minister in these two areas of church life.

Ministerial Profile and Progression

A call to pastoral ministry or any related form of ministry is very personal. The faculty of the Religion Department recognizes that students who come to the department will either have a sense of divine calling or will be currently wrestling with this issue. The choice of ministry implies a high level of spiritual commitment and an exemplary life style.

Continuation in the theology program is at all times contingent on the student maintaining satisfactory academic progress, exemplary social and cultural development, and dedication to the principles of the Christian faith and practice as taught by the Seventh-day Adventist Church. Graduates will demonstrate proficiency in the areas of biblical studies, theological studies, historical studies, and practical studies prior to graduation via a Senior Theology Major Exit Exam (administered by the department chair at the end of a student's final semester).

In fulfillment of the requirements for the classes RELP 423 & 424 Pastoral Ministry I, II, senior theology students prepare a paper describing their personal call and philosophy of ministry. Each paper is reviewed by the members of the Religion faculty and followed by a personal exit interview with the Religion faculty. The composite results of this paper and interview constitute the basis for departmental recommendation for both ministerial work and the Theological Seminary. Subsequently, arrangements are made for senior theology majors to be interviewed by conference presidents.

A Biblical Languages Minor is required to complete the Theology Program and for Seminary entrance.

Program: Religion

Type: B.A.

Required Courses

Item #	Title	Credits
RELT 101	Christian Beliefs	3
RELT 207	Research in Religion	1
RELB 211	Life and Teachings of Jesus	3
RELP 220	Christian Witnessing	3
RELH 230	History of the Seventh-day Adventist Church	3
RELB 313	Prophetic Studies	3
RELH 320	Ellen White Writings	3
RELP 323	Homiletics I	3
RELP 324	Homiletics II	3
RELH 332	History of Christianity II	3
RELT 405	Biblical Theology	3
	RELB 410 or RELB 411	3
RELP 423	Pastoral Ministry I	3
RELP 424	Pastoral Ministry II	3
RELP 425	Field Evangelism	3
RELP 427	Hospital Ministry	1
	RELB Electives	9
	Sub-Total Credits	53

Required cognates

Item #	Title	Credits
COMM 111	Speech	3
HIST 331	History of Christianity I	3
PSYC 212	General Psychology	3
	Sub-Total Credits	9

Recommended Cognates

Item #	Title	Credits
ACCT 211	Accounting Principles I	3
BUAD 120	Personal Finance	3
BUAD 301	Principles of Management	3
EDUC 385	Philosophy of Education	3
HIST 364	Ancient Cultures	3
	Sub-Total Credits	15
	Total credits for degree:	77

Certificate In Church Ministry (Through Distance Education)

The Southwestern Adventist University Distance Education Program and the Department of Religion offers a Certificate in Church Ministry to prepare better lay leaders for the Seventh-day Adventist Church. It is a unique church ministry program which combines basic theological education with church history and applied ministerial methods and practices. The curriculum of the certificate consists of courses totaling 15 semester hours of college credit. These credits may be transferred to any other accredited college or university and may be applied toward a degree at Southwestern Adventist University. The curriculum is also designed to help church lay leaders increase their knowledge and skills and be better equipped to work in various positions of lay leadership.

The Certificate in Church Ministry does not prepare candidates for full-time employment in pastoral ministry nor does it constitute an alternative theology degree. Anyone choosing full-time ministry as a goal for life must enroll in a four-year BA Theology program. Although the program will be entirely offered on-line, a number of courses can also be taken as traditional classes on the campus of Southwestern Adventist University in the current semester format. The courses in the certificate program are offered in either English or Spanish. The Spanish version, however, is only available on-line.

Admission

The Certificate in Church Ministry is open to persons age 25 or older who have served in positions of lay leadership and are officially endorsed by their local congregations or conferences. Applicants must have a high school diploma or its equivalent. Previous college work is not required, but recommended. Applicants must:

1. Complete an application for admission into the certificate program
2. Send a non-refundable \$25 application fee
3. Submit three letters of recommendation from a local church pastor, a local church elder, and a third local church leader which officially endorse the applicant
4. Write a letter of intent stating why the applicant would like to take the college-level certificate in church ministry
5. Send a current professional resume

Time Limitations

Candidates for this certificate must complete all requirements within a five-year period.

Certificate Completion

Certificates will be awarded to students who complete all course requirements and maintain a minimum 2.0 grade point average. Candidates must submit a Certificate Completion contract to the Records Office. A \$25 certificate fee is required at the time the certificate is completed.

Cost of the Certificate

Each course will cost \$400 per course. The Certificate in Church Ministry is an accredited program. Local churches and conferences may provide students with scholarships for this certificate. There are no scholarships available from the University. All charges must be covered at the time of registration.

Academic Support Services

Students taking the certificate program will have access to important academic support services including library and learning resources, information on distance education technology, and the writing center.

Student Support Services

The Distance Education office will provide certificate students with a full range of student services appropriate to support the program, including admissions, academic advising, registration, course materials, certificate audits, and graduation assistance.

Program: Religion

Certificate Course Requirements

Item #	Title	Credits
RELT 101	Christian Beliefs	3
RELB 211	Life and Teachings of Jesus	3
RELP 220	Christian Witnessing	3
RELH 230	History of the Seventh-day Adventist Church	3
RELP 285	Church Ministry (Distance Education Program)	3
Sub-Total Credits		15
Total credits for degree:		15

Minor in Biblical Languages

Program: Religion

Type: Minor

Required Courses

A Biblical Languages Minor is required to complete the Theology Program and for Seminary entrance.

Item #	Title	Credits
RELL 240	New Testament Greek I	5
RELL 241	New Testament Greek II	4
RELL 340	Intermediate New Testament Greek	3
RELL 343	Biblical Hebrew I	3
RELL 344	Biblical Hebrew II	3
RELH 314	Origin & Development of the Bible	3
Sub-Total Credits		21
Total credits for degree:		21

Minor in Religion

Program: Religion

Type: Minor

Required Courses

Item #	Title	Credits
RELT 101	Christian Beliefs	3
RELB 211	Life and Teachings of Jesus	3
	Religion Minor Electives	6
Sub-Total Credits		12

Select any two classes from the following

Item #	Title	Credits
RELB 313	Prophetic Studies	3
RELB 315	Old Testament I	3
RELB 316	Old Testament II	3
RELB 339	New Testament I	3
RELB 340	New Testament II	3
Sub-Total Credits		6
Total credits for degree:		18

SWORD (Soul-Winning Outreach Discipleship) A Bible Worker Certification Program

Leadership

Buster Swoopes, Jr., Program Supervisor - Southwestern Adventist University

Tony Correa, Field Coordinator

Description

A Bible Worker Certification Program that combines college-based classwork with practical training in literature evangelism, outreach, public evangelism, discipleship, and church planning.

Certificate Completion

Certificates will be awarded to students who complete all course requirements and maintain a minimum 2.0 grade point average. Candidates must submit a Certificate Completion contract to the Records Office. A \$25 certificate fee is required at the time the certificate is completed.

Program: Religion

Certificate Course Requirements

Cost of the Certificate

Option A - for academic credit: regular Southwestern's Tuition rates apply (\$10,452; regular financial aid available if in a Southwestern degree program.)

Option B - non-degree seeking, for academic course credit (\$10,452; no financial aid available)

Option C - not-for-credit; \$4,995 program fee

Admission

Applicants must:

- 1) Complete an application for admission into the SWORD program
- 2) Submit three letters of recommendation from a pastor, church member and non-family
- 3) Write a two-page essay to Buster Swoopes, Jr., with the following four elements: a) your conversion story, b) current involvement in ministry, c) goals in relation to this program and d) your post-completion plans for ministry.
- 4) Contact Tony Correa to arrange outreach activity (labs).

Apply at www.swau.edu - Deadline for Fall Semester: March 1
Deadline for Spring Semester November 1

RELT 101	Christian Beliefs	3
RELB 211	Life and Teachings of Jesus	3
RELP 220	Christian Witnessing	3
RELH 230	History of the Seventh-day Adventist Church	3
Sub-Total Credits		12
Total credits for degree:		12

RELB 211: Life and Teachings of Jesus

A study of the life and teachings of Jesus as outlined in the Gospels, including historical background, His principles, methods, and instructions in light of their application to modern life.

Credits: 3

Program: Religion

Semester Offered: Fall Spring

RELB 313: Prophetic Studies

An introduction to and survey of the books of Daniel and Revelation. Special emphasis is given to the application of their prophecies to the modern Christian life.

Credits: 3

Program: Religion

Semester Offered: Spring

RELB 315: Old Testament I

An introduction to the history, literature, and thought of the Old Testament. Study is given to the contemporary objectives of each book and application to life in modern times. Fall topics: Pentateuch and The Writings.

Credits: 3

Program: Religion

Semester Offered: Fall

RELB 316: Old Testament II

An introduction to the history, literature, and thought of the Old Testament. Study is given to the contemporary objectives of each book and application to life in modern times. Spring topics: Prophets and Historical Books.

Credits: 3

Program: Religion

Semester Offered: Spring

Item #	Title	Credits
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RELB 339: New Testament I

The world and literature of the New Testament, including theme and purpose of each book and applications to Christian life. Fall: Gospels-Acts.

Credits: 3

Program: Religion

Semester Offered: Fall

RELB 340: New Testament II

The world and literature of the New Testament, including theme and purpose of each book and applications to Christian life. Spring: Romans-Revelation.

Credits: 3

Program: Religion

Semester Offered: Spring

RELB 410: Biblical Studies Seminar I

A seminar on a biblical topic, book, or body of literature designed to encourage careful, responsible investigation and interpretation. May be repeated for credit. Fall semester: OT topic/text.

Credits: 3

Prerequisites: RELB 315 RELB 316 RELB 339 or 340

Program: Religion

Semester Offered: Fall

RELB 411: Biblical Studies Seminar II

A seminar on a biblical topic, book, or body of literature designed to encourage careful, responsible investigation and interpretation. May be repeated for credit. Spring semester: NT topic/text.

Credits: 3

Prerequisites: RELL 240

Program: Religion

Semester Offered: Spring

RELH 230: History of the Seventh-day Adventist Church

A historical study of the Adventist awakening of the 19th century and the subsequent rise, growth, and worldwide expansion of the Seventh-day Adventist Church. Special attention is given to the role of Ellen G. White in the growing church.

Credits: 3

Program: Religion

Semester Offered: Fall Spring

RELH 233: Biblical Archaeology

A study of the history of archaeology, recent achievements, and archaeological method.

Credits: 3

Program: Religion

Semester Offered: Spring

RELH 314: Origin & Development of the Bible

A study of the history and development of the written material and canon of Scripture, covering the Old Testament, intertestamental literature, and the New Testament. It also reviews the development of the English Bible and evaluates different translations.

Credits: 3

Program: Religion

Semester Offered: Fall

RELH 320: Ellen White Writings

A course designed to give experience and guidelines in the study of the writings of Ellen G. White. The four major foci of the course are the historical context of the life of Ellen White, the development of her major literary works, the themes that tie her writings together across time, and principles for sound interpretation and current application of her writings.

Credits: 3

Program: Religion

Semester Offered: Spring

RELH 331: History of Christianity I

A study of the rise and impact of Christianity in the Roman world and western culture. Attention is given to theological and social movements, the influence of Islam, the crusades, expansionism, and religious adaptation to modern life. (Also taught as HIST 331)

Credits: 3

Program: Religion

Semester Offered: Fall

RELH 332: History of Christianity II

A study of the rise and development from the Reformation through the growth of American religion. (Also taught as HIST 332)

Credits: 3

Program: Religion

Semester Offered: Spring

RELL 240: New Testament Greek I

An introductory study of the elements of New Testament Greek. Emphasis on the fundamentals of grammar and vocabulary. Translation from selected NT passages.

Credits: 5

Program: Religion

Semester Offered: Fall

RELL 241: New Testament Greek II

An introductory study of the elements of New Testament Greek. Emphasis on the fundamentals of grammar and vocabulary. Translation from selected NT passages.

Credits: 4

Prerequisites: [RELL 240](#)

Program: [Religion](#)

Semester Offered: Spring

RELL 340: Intermediate New Testament Greek

Continued reading in the Greek New Testament with emphasis on grammar and syntax, with interpretive translation of selected portions of the New Testament. Includes preparation for the Seminary Greek exam.

Credits: 3

Prerequisites: [RELL 241](#)

Program: [Religion](#)

Semester Offered: Summer

RELL 343: Biblical Hebrew I

An introductory course in the elements of Biblical Hebrew with emphasis on basic grammar and a working vocabulary. The second semester will include grammar review, but will focus on translation from selected Old Testament passages. Includes preparation for the Seminary Hebrew exam.

Credits: 3

Program: [Religion](#)

Semester Offered: Fall

RELL 344: Biblical Hebrew II

An introductory course in the elements of Biblical Hebrew with emphasis on basic grammar and a working vocabulary. The second semester will include grammar review, but will focus on translation from selected Old Testament passages. Includes preparation for the Seminary Hebrew exam.

Credits: 3

Prerequisites: [RELL 343](#)

Program: [Religion](#)

Semester Offered: Spring

REL 210: Introduction to Missions

Required for all student missionaries prior to service abroad. An introduction to issues and ideas in missions. Examines cultures and religions from the perspective of the national and the student missionary.

Credits: 1

Program: [Religion](#)

Semester Offered: Spring

REL 220: Christian Witnessing

A study of the biblical principles of the art and technique of personal evangelism. The student is taught to use the Scriptures effectively, to prepare and give specific Bible studies, to meet objections, and to gain decisions for Christ.

Credits: 3

Program: [Religion](#)

Semester Offered: Fall Spring

REL 271: Ministries Internship

This course allows the student to earn credit through professionally directed mission, evangelistic, colporteur or youth camp programs. Arrangements must be made with the instructor prior to starting the internship and supervision will take place at the location of the internship. Credit earned will be elective only and will not apply to the general education religion requirement or toward a major or minor. Grading is on a pass/fail basis. May be repeated for a total of 3 hours.

Credits: 1 - 3

Program: [Religion](#)

REL 285: Church Ministry (Distance Education Program)

This course will introduce the student to various aspects of church ministry and church life. Students will be instructed in such areas as biblical ecclesiology; church organization and governance; distribution of funds; and the purpose and development of spiritual as well as social activities. This class is offered on-line and does not apply toward the requirements of a Theology major or Religion minor.

Credits: 3

Program: [Religion](#)

REL 323: Homiletics I

A study of the basic concepts of biblical preaching and sermon preparation, including persuasion, human responses, the art of illustration and effective structure. The second semester features actual practice in preparation and delivery in various church settings.

Credits: 3

Prerequisites: [COMM 111](#)

Program: [Religion](#)

Semester Offered: Fall

REL 324: Homiletics II

A study of the basic concepts of biblical preaching and sermon preparation, including persuasion, human responses, the art of illustration and effective structure. The second semester features actual practice in preparation and delivery in various church settings.

Credits: 3

Prerequisites: [REL 323](#)

Program: [Religion](#)

Semester Offered: Spring

REL 420: Pastoral Practicum

Supervised field work in area churches as coordinated by the department. Designed to give practical experience in a wide variety of pastoral situations. May be repeated once for credit upon approval of the religion faculty.

Credits: 1

Prerequisites: RELP 323, 324 completed or taken concurrently

Program: Religion

Semester Offered: Fall Spring

REL 423: Pastoral Ministry I

This class is designed for senior ministerial students. It covers applied studies in church ministry, like pastoral leadership, care, visitation, counseling, and church administration with special attention to organization and finances. The course will be enriched by visits of specialists. This course also requires students to take the Seminary's Church Policy exam a pre-requisite for admission in the M.Div. program. Its successful completion is valid for two years.

Credits: 3

Prerequisites: PSYC 212 RELP 425

Program: Religion

Semester Offered: Fall

REL 424: Pastoral Ministry II

This class is designed for senior ministerial students. It covers applied studies in church ministry, like pastoral leadership, care, visitation, counseling, and church administration with special attention to organization and finances. The course will be enriched by visits of specialists. This course also requires students to take the Seminary's Church Policy exam a pre-requisite for admission in the M.Div. program. Its successful completion is valid for two years.

Credits: 3

Prerequisites: PSYC 212 RELP 425

Program: Religion

Semester Offered: Spring

REL 425: Field Evangelism

This course provides classroom instruction and practical involvement in a main evangelistic crusade led by a successful professional evangelist. The evangelist's meetings are followed by the students' own two-week series in churches selected by the hosting Conference. All facets of the course are taught in the city where the series is conducted. Taught on an arranged basis.

Credits: 3

Prerequisites: RELP 220

Program: Religion

Semester Offered: Summer

REL 427: Hospital Ministry

This course provides opportunity for students to develop professional ministry skills in the particular field of institutional health care. Concentration of communication, assessment, collaboration with health care professionals, and exploration of personal and professional identity is particularly emphasized.

Credits: 1

Prerequisites: Admission to junior or senior-level standing.

Program: Religion

Semester Offered: Spring

REL 101: Christian Beliefs

A study of the basic concepts of Christian faith and practice with emphasis on fundamental doctrines held by Seventh-day Adventists.

Credits: 3

Program: Religion

Semester Offered: Fall Spring

REL 201: Bible Study Methods

This course will teach students various strategies in studying and teaching the Bible. Students will learn different study methods like the thematic, biographical, and word study as well as creating learning environments and developing lessons using a model of teaching repertoire. This class is required for Seventh-day Adventist Denominational Certification and includes Encounter training for NAD teachers seeking re-certification requirements.

Credits: 3

Program: Religion

Semester Offered: Fall

REL 207: Research in Religion

An introduction to the research methods, documentation styles, and writing skills used in religious studies. Students will engage in critical thinking by utilizing and evaluating primary and secondary sources (including journals, indexes, and databases) to produce a book review, a research paper, and a professional presentation that involves public communication of the research process, evaluation of discipline-specific trends and resources, and the responsible and effective use of technology. Within this course, religion/theology majors begin the process of senior portfolio development.

Credits: 1

Prerequisites: CSIS 102 ENGL 121

Program: Religion

Semester Offered: Fall

RELT 212: Christian Ethics

An introduction to the theory and practice of Christian morality; its biblical origins, norms, and sources of authority, including Christian approaches to basic issues such as decision-making, church-world relations, abortion, reproduction technology, euthanasia, marriage and divorce, and methods of social change.

Credits: 3

Program: Religion

Semester Offered: Fall

RELT 360: Philosophy and the Christian Worldview

An introduction to philosophy from a biblical perspective and toward the formation of a Christian worldview. This course addresses the major questions of life such as: What is real? What is true? Who is God? Who am I? Why evil? Philosophical answers to these questions will be critically engaged from the standpoint of a distinctively biblical worldview. Attention is given to analytical tools for evaluating the truth of ideas and understanding the nature of existence and reality within the context of mature faith.

Credits: 3

Program: Religion

Semester Offered: Fall

RELT 405: Biblical Theology

This course consists of the study of several selected topics approached from a biblical perspective, which may include topics such as biblical inspiration and interpretation, the doctrine of God, the doctrine of Christ, the doctrine of Salvation, the doctrine of the Church, eschatology, and the doctrine of the sanctuary. These studies focus upon the contributions of several biblical writers to each doctrinal issue. Some attention is also given to the way in which selected writers have handled the theological issues and biblical material.

Credits: 3

Prerequisites: RELT 101 And at least one of the following: RELB 315, 316, 339, 340

Program: Religion

Semester Offered: Fall

RELT 419: Philosophy of Science

A study of the philosophies and methodologies of science. Includes a review of the history of scientific and religious thought and the role each has played in the development of modern theories of origin. (Also taught as BIOL 419 or GEOL 419.)

Credits: 3

Program: Religion

Semester Offered: Spring

RLGN 298: Individual Study Topics

A study in an area of interest under the direction of a staff member. This study may involve research, laboratory or library work. May be repeated for a total of 2 credits.

Credits: 1 - 2

Prerequisites: Approval of department chair.

Program: Religion

RLGN 299: Directed Group Study

Intensive study of a single approved topic in the field of religion. The course takes the form of a seminar, preparation of a research report, or other guided study as arranged with the department. Content and method of study must be arranged prior to registration. May be repeated for a total of 2 credits.

Credits: 1 - 2

Prerequisites: Approval of department chair.

Program: Religion

RLGN 498: Individual Study Topics

A study in an area of interest under the direction of a staff member. This study may involve research, laboratory or library work. May be repeated for a total of 2 credits.

Credits: 1 - 2

Prerequisites: Approval of department chair.

Program: Religion

RLGN 499: Directed Group Study

Intensive study of a single approved topic in the field of religion. The course takes the form of a seminar, preparation of a research report, or other guided study as arranged with the department. Content and method of study must be arranged prior to registration. May be repeated for a total of 2 credits.

Credits: 1 - 2

Prerequisites: Approval of department chair.

Program: Religion

Trustees

Larry Moore, Chairman, Burleson, TX
Buford Griffith, Vice Chairman, Burleson, TX
Ken Shaw, Secretary, Keene, TX
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Jeff Bromme, Longwood, FL
Carol Campbell, Burleson, TX
Lee-Roy Chacón, Corrales, NM
Carlos Craig, Alvarado, TX
Barbara Incardona Damron, Santa Fe, NM
Richard Dye, Shreveport, LA
Ken Finch, Fort Worth, TX
Edmund Fry II, Tyler, TX
Todd Goodman, Altamonte Springs, FL
Sue Hayes, Arlington, TX
Donald Jernigan, Longwood, FL
Kuk-Wha Lee, Winter Park, FL

Charles Mitchell, Killeen, TX
Sheree Parris Nudd, Gaithersburg, MD
John Page, Burleson, TX
Jung-Wook Park, Edmond, OK
Ruben D. Pechero, McAllen, TX
Wayne Powell, Alvarado, TX
Arthur Rice, Dallas, TX
Renee Sensabaugh, Albuquerque, NM
James Shires, Oklahoma City, OK
Nerv Thomas, Spring, TX
Max A. Treviño*, Burleson, TX
Calvin Watkins, Dallas, TX
Wayne Williams, Canadian, TX
Dan Zacharias, Cleburne, TX

*Emeritus Member

Administration

Officers of Administration

Kenneth Shaw, Ed.D., President

Amy Rosenthal, Ph.D., Vice President for Academic Administration, Accreditation Liaison, Graduate Dean

Joel Wallace, C.P.A., Vice President for Financial Administration

Administrative Services

- Enga Almeida, B.S., Vice President for Enrollment
- Keith Beucler, M.S., Network Administrator/Director of Security
- Tina Bottsford, B.S., Director for Enrollment
- Kip Bowser, B.S., Director of Client Services
- Tami Condon, M.A., Vice President for Advancement
- Rahneeka Hazelton, M.A., Director of Admissions
- Alison Hill, M.A., Assistant Director, Records
- Connie Jenkins, A.S., Assistant to the Registrar
- Jason Kowarsch, M.A., Registrar, Director of Records
- Russ Laughlin, M.Div., Vice President for Spiritual Development
- Charles Lewis, B.A., Director of Information Technology Services
- Karina Lima, B.S., Cashier
- Luisa Manu, B.A., Financial Aid Counselor
- Eder Marski, M.B.A., Systems Administrator
- David Mendoza, B.S., Senior Software Engineer
- Manuel Molina, B.A., Student Account Advisor
- Kisha Norris, M.Ed., Senior Director for Development

- Renata Ocampo, M.A., Director, Center for Academic Success and Advising
- Jerry Potter, M.B.A., Assistant Student Accounts Director
- Genelle Rogers, B.B.A., Human Resources Director
- Marcel Sargeant, Ph.D., Assistant Vice President for Academic Administration, Institutional Research and Distance Education
- Vonda Seals, B.A., Alumni Director
- James The, M.Ed., Vice President for Student Services
- Cristina Thomsen, M.A., M.S., Librarian
- Duane Valencia, M.B.A., Assistant Vice President for Student Financial Services
- Greg Wicklund, C.P.A., Assistant Vice President for Financial Administration
- Edna Yanez-Perez, M.B.A., Accountant
- Tony Zbaraschuk, M.A., M.L.S., Assistant Librarian
- Josafat Zemleduch, B.A., Associate Financial Aid Director

Campus Services

- Dale Hainey, Director for Physical Plant
- Juan Carlos Enriquez, B.S., Director for Custodial Services/transportation
- William Iverson, B.S., Dean of Men
- Lillianne Lopez, M.S., School Counselor/Disability Services Director
- Rafael Romo, Supervisor, Grounds
- Sualua Tupolo, Executive Chef/Director for Food Service
- Janelle Williams, M.Ed., Dean of Women
- Marcela Wall, M.S.A., Director, Bookstore

Faculty

President Emeritus

Eric D. Anderson, Ph.D.

B.A., Andrews University, 1970; M.A., University of Chicago, 1972; Ph.D., University of Chicago, 1978

Emeriti Faculty

Clinton J. Anderson, M.A.

Librarian

Librarian B.A., Andrews University, 1963; M.A.T., Andrews University, 1976

John W. Boyd, D.A.

Music

Music B.A., Walla Walla College, 1969; M. M., Lewis & Clark College, 1974; D.A., University of Northern Colorado, 1998

Watson L. Chin, Ph.D.

Mathematics

B.A., Andrews University, 1963; M.A., Ohio State University, 1966; Ph.D., Illinois Institute of Technology, 1973

R. Edwin Connell, M.A.

Computer Science

B.A., Union College, 1964; M.A., Andrews University, 1972

Robert Cooper, M.S.

Librarian

B.S., Union College, 1952; M.S., University of Southern California, 1966

Laurice Durrant, Ed.D.

Nursing

B.S.N., Union College, 1951; M.S., Stanford University, 1965; Ed.D., Stanford University, 1971

Bonnie Gnad, Ph.D.

Nursing

B.S., Union College, 1964; M.S.N., Washington University, 1969; Ph.D., University of North Texas, 2004

Barbara Harsany, M.S.

PE/Wellness

B.S., Walla Walla College, 1959; M.S., University of Southern California, 1962

Karl Konrad, Ph.D.

Chemistry

B.A., Andrews University, 1963; M.S., Illinois Institute of Technology, 1966; Ph.D., Illinois Institute of Technology, 1969

Richard L. McCluskey, Ph.D.

Biology

B.A., Andrews University, 1961; M.A., Walla Walla College, 1966; Ph.D., University of North Texas, 1972

Robert R. Mendenhall, Ph.D.

Communication

B.S., Pacific Union College, 1967; M.A., Texas Christian University, 1977; Ph.D., University of Texas at Austin, 1994

Marie Redwine, Ph.D.

Academic Vice President

B.S., Union College; 1958; M.S., Northern Illinois University, 1971; Ph.D., Texas Woman's University, 1980

Carol Sample, Ph.D.

English

B.A., Union College, 1947; M.A., East Tennessee State University, 1962; Ph.D., Texas Christian University, 1975. Additional graduate study at University of Maryland

Erwin Sicher, Ph.D.

Education and Social Sciences

B.A., Atlantic Union College, 1958; M.A., Pacific Union College, 1959; Ph.D., University of Southern California, 1970; Ph.D., Texas Woman's University.

Catherine K. Turner, Ph.D.

Nursing

B.S., Columbia Union College, 1963; M.S.N., University of Tennessee, 1980; Ph.D., Andrews University, 1995

Arthur L. White, M.B.A.

Business Administration

B.S., Walla Walla College, 1956; M.B.A., University of Washington, 1957. Additional graduate study at University of Washington

Lloyd A. Willis, Ph.D.

Religion

B.A., Pacific Union College, Avondale Campus, 1961; M.A., Andrews University, 1970; Ph.D., Andrews University, 1982

Andrew Woolley III, Ph.D.

English

B.A., Southern Missionary College, 1973; M.A., Andrews University, 1974; Ph.D., University of Tennessee, 1978

Teaching Faculty

Michael, Agee, M.A.

Associate Professor of Communication, 2010

B.S., Southwestern Adventist College, 1981; M.A., University of Texas at Arlington, 2014

R. Mark Aldridge, Ph.D.

Professor of Psychology, 2002

B.S., Southwestern Adventist University, 1992; M.A., Andrews University, 1995; Ph.D., Andrews University, 2005

Jean Alway, M.S.N.

Associate Professor of Nursing, 1995

B.S., Loma Linda University, 1975; M.S.N., University of New Mexico, 1992

Joaquim Azevedo, Ph.D.

Associate Professor of Religion, 2014

B.A., SDA Theological Seminary, Brazil, 1988; M.A., Andrews University, 1994; Ph.D., Andrews University, 1999

Marcia Azevedo, M.S.N.

Assistant Professor of Nursing, 2017

B.S.N., Adventist College of Nursing, Brazil, 1989; M.S.N., Andrews University, 1994

Donna Berkner, Ed.D.

Professor of Education, 2012

B.S., Southwestern Adventist University, 1992; M.Ed., Tarleton State University, 1996; Ed.D., University of Phoenix, 2012

Elizabeth Bowser, M.A.

Assistant Professor of History, 2006

B.A., Pacific Union College, 1994; M.A., University of California at Riverside, 2000

Thomas G. Bunch, Ed.D.

Professor of PE/Wellness, 1977

B.S., Pacific Union College, 1966; M.A., California State, 1968; Ed.D., Brigham Young University, 1977

Michael W. Campbell, Ph.D.

Associate Professor of Religion, 2018

B.A., Southern Adventist University, 2001; M.A., Andrews University, 2003; Ph.D., Andrews University, 2008

Arthur V. Chadwick, Ph.D.

Professor of Biology and Geology, 1984

B.A., La Sierra College, 1965; Ph.D., University of Miami, 1969. Additional graduate study at the University of California

Kristin Denslow, Ph.D.

Assistant Professor of English, 2016

B.A., Andrews University, 2006; M.A., Western Michigan University, 2009; Ph.D., University of Florida, 2014

Jayne Doneskey, M.A.

Assistant Professor of English, 2013

B.S., La Sierra University, 1981; M.A., La Sierra University, 1989

Renard K. Doneskey, Ph.D.

Professor of English, 1999

B.A., Southwestern Adventist College, 1981; M.A., Andrews University, 1983; Ph.D., University of California, 1987

Jonathan Duarte, Ph.D.

Associate Professor of Mathematics, 2014

B.S., Cagayan de Oro College, Philippines, 1999; M.S., Illinois State University, 2003; Ph.D., Illinois State University, 2010

Michael G. England, Ed.D.

Professor of Education, 1996

B.S., Andrews University, 1977; M.A., Western Carolina University, 1980; M.Ed., Walla Walla College, 1986; Ed.D., Andrews University, 1997

Miguel Espinosa, M.Ed.

Assistant Professor of Computer Science, 2006

B.S., Montemorelos University, Mexico, 1991, M.Ed., Southwestern Adventist University, 2003

Fay Foreman, M.S.N.

Assistant Professor of Nursing, 2016

B.S.N., Southwestern Adventist University, 1997; M.S.N., University of Phoenix, 2003

Lakicia Foster, M.P.H.

Assistant Professor of Nursing, 2017

B.S., Oakwood University, 2007; B.S.N., Johns Hopkins School of Nursing, 2013; M.P.H., Nova Southwestern University, 2011

Lynette Frantzen, Ph.D.

Assistant Professor of Psychology, 2015

B.A., Walla Walla University, 1997; M.A., Western New Mexico University; Ph.D., Capella University, 2012

Lindsey Gendke, M.A.

Instructor of English, 2018

B.A., Southwestern Adventist University, 2008; M.A., University of Texas at Arlington, 2012

Terri Gibson, D.N.P.

Associate Professor of Nursing, 2015

B.S., Angelo State University, 2005; M.S., University of New Mexico, 2008; D.N.P., Loma Linda University, 2016

Devon Howard, D.M.A.

Assistant Professor of Music, 2016

B.S., Southern Adventist University, 2003; D.M.A., Arizona State University, 2012

Chad Hutchinson, M.S.Ed.

Assistant Professor of Kinesiology, 2005

B.S., Southern Adventist University, 1998; M.S.Ed., Southern Adventist University, 2004

R. Steven Jones, Ph.D.

Professor of History, 1997

B.A., Northern Oklahoma State University, 1988; M.A., Oklahoma State University, 1990; Ph.D., Oklahoma State University, 1997

Kerrie Kimbrow, D.N.P.

Associate Professor of Nursing, 2012

B.S.N., Union College, 1988; M.S., Loma Linda University, 1993; D.N.P., Southern Adventist University, 2017

Ryan Loga, Ph.D.

Assistant Professor of Mathematics, 2016

B.S., Southern Adventist University, 2010; M.S., University of Tennessee, 2014; Ph.D., University of Tennessee, 2016

Nicholas Madhiri, Ph.D.

Associate Professor of Chemistry, 2011

B.S., University of Zimbabwe, 1999; Ph.D., West Virginia University, 2006

Amy McHenry, Ph.D.

Associate Professor of Biology, 2011

B.S., Union College, 2004; Ph.D., Notre Dame, 2009

Peter McHenry, Ph.D.

Associate Professor of Biology, 2011

B.S., Union College, 2003; Ph.D., Notre Dame, 2009

Joyce Melius, Ed.D.

Assistant Professor of Nursing, 2018

B.S.N., Southwestern Adventist College, 1983; M.S.N., University of North Texas at Arlington, 1996; Ed.D., University of Texas at Denton, 2012

Joshua Michalski, M.F.M.

Assistant Professor of Business, 2016

B.B.A., Southern Adventist University, 2009; M.F.M., Southern Adventist University, 2010; M.S., Southern New Hampshire University, 2018

Judith Foll Miles, M.A.

Associate Professor of Business/Computer Science, 1979

B.S., Andrews University, 1969; M.A., Loma Linda University, 1978

Ronald Mitchell, Ph.D.

Professor of Nursing, 2010

B.S., Walla Walla College, 1972; M.S., California State University, 1976; Ph.D., The University of Utah, 1988

Aaron Moses, Ph.D.

Professor of Business, 2011

B.B.A., Northwood University, 2000; M.S., University of Texas at Arlington, 2008; Ph.D. University of Texas at Arlington, 2012

Vesa T. Naukkarinen, M.S.

Associate Professor of Kinesiology, 2010

B.S., Southwestern Adventist University, 1999; M.S., University of North Texas, 2001

Ana Patterson, M.B.A.

Assistant Professor of Business, 2012

B.B.A., Southwestern Adventist University; 1995, M.B.A., Southwestern Adventist University, 2012

Kyle Portbury, M.A.

Associate Professor of Communication, 2015

B.A./BTch., Avondale College, 2002; M.A., Univeristy of Arts London, 2007

Alison Torres Ramos, Ph.D.

Assistant Professor of English, 2017

B.A., University of Puerto Rico at Aguadilla, 2009; M.A., University of Puerto Rico at Mayaguez, 2012; Ph.D., University of Texas at Arlington, 2017

Chanda Reins, M.B.A.

Assistant Professor of Business, 2012

B.B.A., Southwestern Adventist University, 2009; M.B.A., Southwestern Adventist University, 2012

Jorge Rico, D.Min., Ph.D.

Professor of Religion, 2006

B.A., Columbia Union College, 1986; M.Div., Andrews University, 1989; D.Min., Andrews University, 1997; Ph.D., Andrews University, 2006

Glendal P. Robinson, Ph.D.

Professor of Communication, 1998

B.A., Pacific Union College, 1975; M.A., California State University, 1988; Ph.D., University of North Texas, 2004

Amy Rebok Rosenthal, Ph.D.

Associate Professor of History, 2012

B.S., Pacific Union College, 1999; M.A., Indiana University, 2001; Ph.D., Indiana University, 2010

Paulino Santos Andino, Ed.D.

Associate Professor of Kinesiology, 2015

B.A., American University of Puerto Rico, 2007; M.A., Metropolitan University of Puerto Rico, 2009; Ed.D., Northcentral University, 2017

Marcel Sargeant, Ph.D.

Professor of Education, 2002

B.S., University of Guyana, 1987; M.A., Andrews University, 1995; Ph.D., Andrews University, 2003

Arthur Schwarz, Ph.D.

Associate Professor of Biology, 2011

B.S., Walla Walla College, 1978; M.S., Walla Walla College, 1984; Ph.D. University of Saskatchewan, 1988

Rima Seaman, Ed.D.

Associate Professor of Nursing, 2018

B.S.N., Adventist University of the Philippines, 1992; M.S.N., Loma Linda University, 2008; Ed.D., Adventist University of the Philippines, 2016

Gerald Springer, Ph.D.

Professor of Math/Physical Sciences, 2007

B.S., Oakwood College, 1993; M.S., University of Tennessee at Knoxville, 1996; Ph.D., Kansas State University, 2001

Buster Swoopes, Jr., M.Div.

Assistant Professor of Religion, 2018

B.A., Southwestern Adventist University, M.Div., Andrews University, 2012

Cheryl The, Ph.D.

Assistant Professor of Education, 2010

B.S., Pacific Union College, 1983; M.A., Pacific Union College, 1987; Texas Woman's University, 2018

Daryl D. Thomas, Ph.D.

Professor of Computer Science, 1995

B.S., Louisiana State University, 1976; Ph.D., Louisiana State University, 1994

Cristina Thomsen, M.S.

Professor - Library, 2004

B.A., Southwestern Adventist College, 1978; M.A., Loma Linda University, 1981; M.S., University of Texas at Austin, 2004

Jonathan Wall, M.Mus.

Assistant Professor of Music, 2009

B.Mus., Andrews University, 2005; M.Mus., Andrews University, 2013

Jared Wood, Ph.D.

Assistant Professor of Biology, 2015

B.S., Southeastern Oklahoma State University, 2010; Ph.D., University of Louisville, 2016

Tony Zbaraschuk, M.L.S., M.A.**Assistant Professor - Library, 2016**

B.A., Walla Walla College, 1989; M.L.S., Indiana University of Library and Information Science, 1993; M.A., University of Notre Dame, 1994

Adjunct Faculty**Business Administration**

Scott Cain, J.D.
Alex Falcon, M.B.A.
Judy Miles, M.A.

Communication

Christopher Combest, M.L.A.
David Pollock, M.A.
Landi Whitehead, B.A.

Education/Psychology

Carol Campbell, Ph.D.
Jeremy Carter, Psy.D.
Ken Jones, Psy.D.
Jimmy Kijai, Ph.D.

English as a Second Language/Modern Language

Junyu Zhang, M.S.

Music and Art

Dorla Aparicio, M.M.
Joy Chadwick, B.F.A.
Marcin Parys, M.A.
Dan Totan, M.Mus.
Marcela Wall, M.S.A.

History, Social Science

Randall Butler, Ph.D.
Karen Kaiser, Ph.D.
Chloe Northrop, Ph.D.
Monroe Solomon, III, J.D.
Cristina Thomsen, M.A., M.S.

Kinesiology

Wayne Baker, B.S.
Brent Batla, M.S.
Embedzayi Tsanzi, M.A.
Kim Vanhoose, B.S.

Math/Physical Sciences

George Parry, Ed.D.

Religion

Russ Laughlin, M.Div.
Theodore Stewart, M.Div.

Academic Departments

First name listed is chair.

Department of Biological Sciences

- Peter McHenry, Ph.D.
- Arthur Chadwick, Ph.D.
- Amy McHenry, Ph.D.
- Arthur Schwarz, Ph.D.
- Jared Wood, Ph.D.

Department of Business Administration

- Aaron Moses, Ph.D.
- Joshua Michalski, M.F.M.
- Ana Patterson, M.B.A., M.S.
- Chanda Reins, M.B.A.

Department of Communication

- Michael Agee, M.A.
- Kyle Portbury, M.A.
- Glendal P. Robinson, Ph.D.

Department of Computer Science

- Daryl D. Thomas, Ph.D.
- Miguel Espinosa, M.Ed.
- Judith Miles, M.A.

Department of Education & Psychology

- Donna Berkner, Ed.D.
- Mark Aldridge, Ph.D.
- Michael England, Ed.D.
- Lynette Frantzen, Ph.D.
- Cheryl The, Ph.D.

Department of English

- Renard Doneskey, Ph.D.
- Kristin Denslow, Ph.D.
- Jayne Doneskey, M.A.
- Lindsey Gendke, M.A.
- Alison Torres Ramos, Ph.D.

Department of History & Social Sciences, including Modern Languages

- R. Steven Jones, Ph.D.
- Elizabeth Bowser, M.A.

Department of Kinesiology

- Paulino Santos, Ed.D.
- Chad Hutchinson, M.S.Ed.
- Vesa Naukkarinen, M.S.

Department of Mathematics & Physical Sciences

- Gerald Springer, Ph.D.
- Jonathan Duarte, Ph.D.
- Ryan Loga, Ph.D.
- Nicholas Madhiri, Ph.D.

Department of Music

- Devon Howard, D.M.A.
- Rogerio Nunes, M.Mus.
- Jonathan Wall, M.Mus.

Department of Nursing

- Kerrie Kimbrow, D.N.P.
- Jean Alway, M.S.N.
- Marcia Azevedo, M.S.N.
- Fay Foreman, M.S.N.
- Lakicia Foster, M.P.H.
- Terri Gibson, D.N.P.
- Ron Mitchell, Ph.D.
- Joyce Melius, Ed.D.
- Rima Seaman, Ed.D.

Department of Religion

- Joaquim Azevedo, Ph.D.
- Michael Campbell, Ph.D.
- Jorge Rico, Ph.D.
- Buster Swoopes, Jr. M.Div.

Addendum

Bulletin Addendum for Spring 2019

Senior Living Management Certificate

BIOL 341 — updated description

Fire Science Program — Not currently accepting enrollments to this program

Senior Living Management Certificate

Senior Living Management Certificate

The senior living industry (e.g., assisted living, independent living, and memory care) employs administrators who have real-world experiences, but may lack specific formal education in business and in the senior living industry. Southwestern Adventist University's Senior Living Management Certificate meets the educational needs of current administrators of senior living facilities or professionals who are interested in transitioning into the senior living industry. Students will gain a foundational understanding of the key areas of business administration as well as how to apply these principles in the successful operation of a senior living facility. Additionally, students will become knowledgeable on topics specifically related to the industry such as federal and state regulations, senior wellness and the long-term care continuum.

The program curriculum, offered entirely online, consists of four courses, totaling 12 semester hours of upper division college credit. The certificate does not constitute a college degree, though credits may be transferred to any other accredited college or university and may be applied toward a degree at Southwestern Adventist University. Each course meets the Texas Licensing Standards for Assisted Living Facilities 8-hour continuing education.

Admission Requirements

Applicants to the Senior Living Management Certificate must have earned at least 60 college credit hours OR have at least 3 years of experience within the senior living industry. Applicants must:

1. Complete an application for admission into the certificate program
2. Pay a non-refundable application fee of \$25
3. Provide proof of eligibility by *one* of the following methods:
 - Submit official transcripts
 - If eligibility is based on work experience, applicants must also submit a current professional resume AND a signed letter from current or previous employer confirming work experience

Certificate Completion

Certificates will be awarded to students who complete all course requirements and maintain a minimum 2.5 grade point average. Candidates must submit a Certificate Completion contract to the Records Office. A \$25 certificate fee is required at the time the certificate is completed.

Cost of the Certificate

Tuition for non-degree seeking students is \$400 per credit hour (or \$1,200 per course) plus a technology fee. There are currently no scholarships available from the university for non-degree seeking students. All charges must be covered at the time of registration for each course. Costs for degree-seeking students will follow the normal tuition rate and scholarships may be available.

Program: Business Administration

Certificate Course Requirements

Item #	Title	Credits
BSLM 301	Legal and Ethical Framework of Senior Living	3
BSLM 302	Quality in Resident Care and Services	3
BSLM 303	Financial and Human Resource Management of Senior Living Facilities	3
BSLM 304	Senior Living Marketing, Management and Leadership	3
Sub-Total Credits		12
Total credits for degree:		12