

# **Southwestern Adventist University**

## **The Bulletin 2011-2012**

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## **Southwestern Adventist University: Bulletin 2011-2012**

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# Academic Calendar 2011-2012

## Fall Semester, 2011

August	17 Wednesday	ESL Begins
	17-21 Wed-Sun	Freshman Orientation
	21-22 Sun-Mon	Registration
	23 Tuesday	Instruction Begins, Late Registration Begins
	29 Monday	Last Day to Register or Add a Class
	30 Tuesday	International Student Orientation
September	9 Friday	Last Day to Withdraw from a Class without receiving a "W"
October	13 Thursday	Mid-Semester
	14 Friday	Fall Holiday
	21 Friday	Deadline for removal of SU'11 Incompletes
	23 Sunday	Senior General Education Exit Exam <i>or</i>
	26 Wednesday	Senior General Education Exit Exam
November	1 Tuesday	Last Day to Withdraw from a Class
	7 Monday	Spring 2012 Registration Begins
	21 Monday	Thanksgiving Break Begins
	28 Monday	Instruction Resumes
December	11-14 Sun-Wed	Examinations
	14 Wednesday	Christmas Vacation begins-11:30am
	14 Wednesday	ESL Completion
	15 Thursday	Commencement

## Spring Semester, 2012

January	8 Sunday	Registration
	9 Monday	ESL Begins
	9 Monday	Instruction Begins, Late Registration Begins
	13 Friday	Last Day to Register or Add a Class
	16 Monday	School Holiday, Martin Luther King Birthday
	17 Tuesday	International Student Orientation
	20 Friday	Last Day to Withdraw from a Class without receiving a "W"
February	17 Friday	Deadline for removal of FA'11 Incompletes
	29 Wednesday	Mid-Semester
March	9 Friday	Spring Break Begins
	19 Monday	Instruction resumes
	26 Monday	Summer Registration Begins
	29 Thursday	Last Day to Withdraw from a Class
April	2 Monday	Fall 2011 Registration Begins
	8 Sunday	Major Field Exit Test
	11 Wednesday	Awards Convocation
	29-May 2 Sun-Wed	Examinations
May	2 Wednesday	ESL Completion
	4 Friday	Senior Consecration
	5 Saturday	Baccalaureate
	6 Sunday	Commencement

Academic Calendar 2011-2012

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Summer Semester May 6 - August 17, 2012

Undergraduate

May 6-June 1 (4 weeks)	1st	Final exam June 1
May 6-June 8 (5 weeks)		Final exam June 8
July 11-July 13	2nd	Final exam July 13

Graduate - MBA (Sundays)

1st	May 6, 13, 20, 27, June 3
2nd	June 10, 17, 24, July 1, 8
3rd	July 15, 22, 29, Aug 5, 12

Graduate - MEd

May 6-August 17  
On Campus June 4-29

ADP/Distance Ed Semester

May 6-August 17

# Mission, Purpose, and Goals

## Mission Statement

The mission of Southwestern Adventist University is to offer quality higher education in a Christ-centered environment shaped by Seventh-day Adventist and Christian values.

## Our Vision

Southwestern Adventist University is to be a leader in Seventh-day Adventist higher education, and make significant contributions to religiously affiliated education in general.

## Our Values

1. We believe that God is the ultimate source of meaning.
2. We affirm the Seventh-day Adventist tradition of service.
3. We are committed to the harmonious development of body, mind, and spirit.
4. We are committed to educating free citizens, men and women of integrity, who value learning and inquiry.
5. We are committed to the liberal arts tradition, which educates for life, not merely vocation.

## 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).

## Pertinent Descriptive Information

The University is a coeducational institution of higher learning. It was established and is operated by the Seventh-day Adventist Church and is essential to the fulfillment of the teaching ministry of the church.

## Essential Beliefs

The institution is committed to Christian teachings and values as understood by the Seventh-day Adventist Church. God is perceived as the Creator and ultimate source of knowledge and meaning. True education is defined as the harmonious development of the intellectual, spiritual, social, and physical aspects of human nature.

## 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

## **Mission, Purpose, and Goals**

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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 business and education.

### **Attitudes and Ideals**

The University broadens the student's intellect, strengthens the spiritual dimension, contributes to social growth, fosters attitudes and practices of healthful living, develops a wholesome respect for the dignity of labor, and instills a sense of selfless service.

### **Institutional Goals**

The University has the following goals:

1. Strengthen the student's relationship with Jesus Christ
2. Provide an environment conducive to learning
3. Provide the infrastructure to fulfill our educational purpose
4. Focus on quality curricular programs in undergraduate education
5. Provide a general education component that brings enrichment and balance to all academic and professional programs
6. Provide quality graduate education at the master's level
7. Provide quality distance-learning
8. Provide administrative support services
9. Provide educational support services
10. Operate in a fiscally responsible manner

### Student 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 Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097, telephone number 404-679-4501) to award: Associate, Bachelor's, and Master's degrees.

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

- Adventist Accrediting Association of SDA Schools, Colleges, and Universities
- International Assembly for Collegiate Business Education
- Texas Education Agency
- Texas Board of Nursing
- Commission on Collegiate Nursing Education

The University is a member of the following:

- Council for Higher Education Accreditation
- National Association of Independent Colleges and Universities
- Independent Colleges and Universities of Texas
- Association of Texas Colleges and Universities
- 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.



# Admission

## Admission Requirements and Procedures

As a Christian institution providing higher education in the liberal arts and selected professional areas, Southwestern Adventist University offers admission to qualified applicants of good moral character, personal maturity, and intellectual ability. Preference is given to those who 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 a vital institution of the Seventh-day Adventist Church in the southwestern United States and fosters an academic program in keeping with the teachings and practices of the SDA Church. The university welcomes students who are not members of the SDA Church and are willing to respect and to support the academic and social program. The University maintains a policy of non-discrimination in the admission of students and endeavors to have a diverse academic community -- religiously, economically, ethnically, and culturally. Currently, students come from various states of the nation and from other countries.

The Admissions Committee has the responsibility for admission and readmission to the University. Admission to the University does not in itself assure the student of housing, financial aid, medical clearance, registration in classes, or other necessary arrangements. It is the responsibility of the accepted student to make such arrangements with the appropriate office.

The Office of Admissions and Records will provide further admission information upon request. Prospective students are encouraged to contact Southwestern Adventist University and to take advantage of one of several options to learn more about the University. Please contact the Office of Enrollment Services for more information.

Numerous financial assistance opportunities are available to make it possible for applicants to be considered for admission without regard to their ability to meet the full cost of tuition. For further information and assistance, a prospective student should see the financial assistance section of this Bulletin and contact the Office of Student Financial Services.

Students are advised that admission is contingent upon the integrity of the information submitted to the University and contained in the application file. Discovery of false information subsequent to the offer of admission is, at the University's discretion, grounds for withdrawal of the offer of admission or for immediate dismissal at any point in the student's course of study. Such dismissal shall result in forfeiture of all charges paid and academic credits earned.

## Admission to Regular Freshman Standing

Students may apply as early as the fall semester of their senior year in high school. First year freshman applicants may apply for early or regular acceptance. The priority date for early acceptance is March 15 and requires submission of all admission materials, including partial (six or seven semesters) high school transcripts, and test scores. Students with an early acceptance status assume the responsibility for submitting final official transcripts after high school graduation. Applicants for regular acceptance must submit all admission materials, including a final transcript by June 30.

All application materials must be received by August 1 for an admission decision to be made prior to fall semester and December 15 for spring semester. Students requesting a late admission decision will be assessed a late application fee of \$25.

## Admission

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Students applying for admission to the University must submit the following materials to the Office of Admissions and Records:

1. A formal application for admission
2. An official high school transcript *or*  
Official GED test results *or*  
A home school transcript with courses, grades, and dates of completion and a state-issued certificate of secondary school completion if applicable
3. Official SAT *or*  
ACT score report

Students will be accepted in good and regular standing if they meet the following criteria:

1. A high school grade point average of at least 2.00 (on a 4.00 scale) in major subjects *or* GED minimum test results of 400 on each of 5 tests or 450 average on all 5 tests
2. Minimum SAT scores of 500 in mathematics and 430 in Critical Reading *or* minimum ACT scores of 21 in mathematics, 17 in English and a composite score of 18

The University expects applicants for admission to follow a standard college preparatory course of study during high school.

The minimum high school curriculum for a diploma includes

- 4 units of English
- 3 units of mathematics to include Algebra I and Geometry
- 2 units in physical science and biology
- 4 units of social studies

The University recommends a more rigorous high school program that will increase a student's opportunities for scholarships and academic success.

- 4 units of English
- 4 units of mathematics, especially an advanced unit during the senior year
- 4 units of science to include both physical and natural science
- 4 units of social studies
- 2 units of one foreign (non-English) language

Applicants taking Advanced Placement classes should consult the AP examination program in the Academic section of this *Bulletin*. Other questions about admission can be directed to the Office of Admissions and Records or your admission counselor.

## Admission to Conditional Freshman Standing

Applicants who do not meet the published criteria may be considered for admission by the Admissions Committee. The Committee will require the applicant to meet specific conditions before gaining regular student status. These conditions will be specified in the student's letter of acceptance and may include remedial course work, limited course load, restriction on extra-curricular activities, and dormitory residency.

Applicants may be granted a conditional acceptance for one semester in order for official transcripts to be received.



## **Admission of Transfer Students**

Students seeking admission after attending another accredited university, college, or community college must submit the following materials to the Office of Admissions and Records.

1. A formal application for admission
2. Official transcripts of all college or university course work
3. Applicants with fewer than 24 transferable semester credit hours must also submit  
An official high school transcript *or*  
Official GED test results *or*  
A home school transcript with courses, grades, and dates of completion and a state-issued certificate of secondary school completion if applicable *and*  
Official SAT *or* ACT score report

Transfer students will be accepted in good and regular standing provided a GPA of 2.00 (on a 4.00 scale) has been earned in all previous college course work. 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, co-operative 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 approved by Southwestern Adventist University.

The University is developing articulation agreements with local colleges and applicants are encouraged to request these materials.

Transfer students who have not completed the general education mathematics requirement and/or the freshman composition requirement prior to enrollment at the University must submit SAT or ACT scores for appropriate class placement prior to registration. These tests are available at the University Testing Center.

Applicants who do not meet the published requirements may be considered for admission by the Admissions Committee. A transfer student may be accepted on academic probation if the transfer GPA is less than 2.00. Transfer applicants may also be granted a conditional acceptance for one semester in order for official transcripts to be received

## **Admission of International Students**

Southwestern Adventist University welcomes students from all over the world. Students for whom English is not the native language must demonstrate English language proficiency by submitting one of the following:

- Minimum score on the TOEFL (Test of English as a Foreign Language) of 520 on the paper based test, or 190 on the computer based exam, or 68 on the internet based test *or*

## Admission

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- Minimum score of 80 on the Michigan test *or*
- Minimum score of 430 on the SAT critical reading component *or*
- Minimum score of 17 on the ACT English section *or*
- Transfer of a minimum of 24 semester credit hours from a college or university where English is the language of instruction

International students seeking admission to the University must submit the following materials to the Office of Admission and Records.

- A formal application for admission
- Personal data form
- Official evaluated high school and college transcripts
- Official SAT or ACT scores if the student's native language is English
- Official English proficiency assessment as described above
- A minimum equivalent GPA of 2.0 on high school and college transfer work

For additional information about requirements for obtaining a student visa for entry into the United States, financial costs, medical insurance, housing, campus employment, and other matters of international student orientation see the International Student section of this Bulletin or contact the International Student Advisor in the Office of Admissions and Records.

## 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 an 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.

**High School Students.** The University has several programs available to high school students to take University courses on-line, on-campus, and at an academy. Students interested in these programs should contact the Office of Admissions and Records 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 request for registration.

## Readmission to the University

Students seeking readmission must submit the following materials to the Office of Admissions and Records.

1. A formal application for readmission
2. Official transcripts of all subsequent college or university course work

Returning students will be accepted in good and regular standing 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
- Graduate study admission policies are described in the *Graduate Bulletin*

The tuition discount for post-baccalaureate students is described in the Finances section of this *Bulletin*.



# International (F-1) Students

International students should not leave their country without a letter of acceptance and an I-20 issued by the University.

## Requirements for Southwestern Adventist University I-20

After academic acceptance has been granted (see admissions), international students must meet the following requirements to obtain I-20 and I-901 forms necessary for issuance of a student visa for entry into the U.S and enrollment at Southwestern Adventist University:

- Submit a certificate of finance form and documentation to prove financial ability to meet tuition, lodging, food, fees, medical insurance, and personal expenses.
- Submit Prepayment. (Undergraduates submit \$7,900. ESL students submit \$5,500.)
- Submit \$1,000 international student deposit, \$200 goes directly to immigration to pay the SEVIS fee for your I-901. \$100 reserves a dormitory room if living on campus. The remaining deposit is held in reserve and is returned after graduation or withdrawal if the student account has been paid in full. If an applicant does not register, all funds will be returned except for a \$100 processing fee, the \$200 SEVIS fee, and the \$100 room deposit.
- Submit a legible copy of a current passport showing legal name.

## I-20 Transfer to Another School

International students may transfer to another school before initial enrollment at Southwestern. The student must see the international student advisor to have their I-20 transferred.

## I-20 Transfer from Another School to Southwestern

International students must be academically accepted to Southwestern and request a SEVIS transfer from their previous school in order to have their I-20 transferred. They must also submit the required forms necessary to obtain an I-20. See the international student advisor for more information.

## Other International Enrollment

F-2, B-1, or B-2 visa holders may enroll for a maximum of one class of up to four hours per semester. These students are not allowed to enroll in nursing classes or work on campus. Immigrants with an R-1 or R-2 visa can enroll full-time but are not allowed to work on-campus.

## Concurrent Enrollment

International students on an I-20 visa may be granted concurrent enrollment with another school with approval from the international student advisor.

## Immigration Reporting

As required by U.S. law, the U.S. government must be notified, through the Student & Exchange Visitor System (SEVIS) when an I-20 is issued, when an international student enrolls or does not enroll for classes or withdraws from the university or falls below a full load of classes or changes his/her address. It is imperative that international students notify the international student advisor in advance of any changes.

## **International (F-1) Students**

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### **Finances**

International students are expected to have sufficient funding (as listed on I-20 with sponsorship and/or personal funding) to cover tuition, food, lodging, books, fees, insurance, and personal expenses. Unfortunately, the U.S. government does not give loans or grants to international students. However, you may qualify for scholarships based on GPA, SAT or ACT scores as listed in the finance section. You may also work on campus for a maximum of 20 hours per week while school is in session and 40 hours per week during school vacations.

### **Medical Insurance**

Immigration requires that all international students have twelve month coverage while in the U.S. All international students must purchase major medical insurance coverage at registration. Do not purchase a medical insurance policy in your home country. If already insured through the SDA system, the international student must provide documentation of equivalent insurance coverage. No refunds will be made after the second week of classes.

### **Arrival on Campus**

When international students arrive on campus, they should take their passport, visa, I-20, and I-94 card to the international student services so that copies can be made for their file. Students must also attend the international student orientation which is held the second week of the semester. Students who do not attend the session will be required to attend a makeup session. All international students are held responsible for the information contained in the international student handbook.

Costs

Tuition, Room & Board Costs

Full-Time Student Package

	Semester	Year
Tuition (12-17 credit hours)	\$ 8,340	\$16,680
SA Fee	100	200
Technology Fee	100	200
<b>Total Tuition and Fees:</b>	<b>\$ 8,540</b>	<b>\$17,080</b>

Residence hall room	1,660	3,320
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Meal Plan Choices (required for resident hall students)

7 Day Plan

- \$1,845 per semester (7 days per week + \$300 Rusty Bucket Café)
- \$1,753 per semester (7 days per week, no Rusty Bucket Café)

5 Day Plan

- \$1,660 per semester (Monday through Friday + \$200 Rusty Bucket Café)
- \$1,568 per semester (Monday through Friday, no Rusty Bucket Café)

The Rusty Bucket Café offers a variety of hot meals and made to order sandwiches as well as breakfast items, smoothies, snacks and beverages. It is open to all students and the community.

Meal plans are available to any Southwestern student.

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
- \*Local telephone service
- Use of the following:
  - Library

## Finances

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- PC Laboratory
- Science Laboratory
- Athletic Facilities
- Student Center
- Band Instrument
- Counseling

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

### Summer School

Residence halls charge a weekly rate and the cafeteria charges for each meal.

### 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 to select from one of four meal plans 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 family (parents, grandparents, or siblings over 25 years of age in an established residence, or
- Be a senior with a good citizenship record, 90+ credit hours, and cumulative GPA of 3.5 or greater

Single students must live with the same gender, unless living with immediate family members

### Residence Hall Deposit

To reserve a room, students are required to pay a general deposit of \$100 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. Deposit 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 9, the deposit will be refunded.

### Private Room Fees

Private room fees are an additional \$830 per semester subject to space availability, dean approval, and financial clearance.

### Other Tuition and Fees

#### Adult Degree Program

Adult Degree Program tuition is \$556 per credit hour. There are no payment plans for this program. All charges must be covered at the time of registration. ADP Prior Learning Assessment recording fee is \$75 per course. Additional information about the ADP Program can be found on page 73.



**Audit Tuition**

Part time or audit-only students will be charged at one-half of the regular hourly tuition rate.

**Clinical Laboratory Sciences**

Clinical Laboratory Sciences students will be charged an administrative fee of \$100 per semester during their clinical year. Check with the advisor regarding tuition and fees.

**Credit Hour Charge**

Courses taken above or below the 12-17 hour package will be charged at \$695 per credit hour.

**Freshman Orientation Fee**

Attendance at Freshman Orientation is required of all freshmen students. This is scheduled to begin Wednesday evening before the week fall semester classes begin and continue through the weekend. A fee of \$195 will be assessed for this orientation.

**Fees****Course Fees**

- Art Class supply fee \$40
- Each Biology lab course fee \$40
- Each Chemistry lab course fee \$40
- Principles of Active Learning \$30
- Broadcast Motion Graphics supply fee \$150
- Digital Media Techniques supply fee \$150
- Digital Photography supply fee \$150
- Photojournalism supply fee \$150
- Digital Film Production supply fee \$150
- Video Production I supply fee \$150
- Video Production II supply fee \$250
- Visual Communication supply fee \$150
- Independent class fee \$100 per credit hour

**Examination Fees**

- Career, Aptitude, and Personality Test – Up to \$20
- CLEP examinations - \$77
- Challenge, waiver, and validation preparation fee - \$75
- CLEP and challenge examination recording fee - \$25
- SAT or ACT examination – \$40
- Special examinations, such as THEA, HESI, or LSAT, carry a fee

**Student Association Fee** - \$100 each semester is required of all undergraduate students.

**Technology Fee** - \$100 each semester is required of all students.

Fees are non-refundable after close of registration.

## Finances

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### Graduate Program

Graduate Program tuition is \$695 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.

### Music Lessons

Music lessons with a course number in the one hundreds or three hundreds are \$200 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.

Music lessons with a course number in the two hundreds or four hundreds are required for music majors and are \$300 per semester above the cost of tuition (based on a minimum of ten one-hour lessons). There are no refunds after the second week of the semester.

### Nursing Tuition Surcharge/Program Admission Fee

A \$150 tuition surcharge is assessed for each clinical nursing course.

A \$100 non-refundable fee is required upon acceptance to the Nursing Program.

### Senior Citizens

The tuition rate for senior citizens (65+) is \$20 per semester hour for courses taken for audit or credit. This does not apply to the Adult Degree Program, 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 fee with an application for the academic year ACA study abroad program and a \$30 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.
- Independent study and graduate classes are \$695 per credit hour.
- The Dinosaur field course is \$232 per credit hour.
- The Honors Study Tour is \$232 per credit hour.
- The Taiwan summer tuition is \$521 per credit hour.

### Student Missionary/Task Force Program Charges

Students who are spending 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.

### Other Expenses

#### Books

Books and class supplies will cost approximately \$500 per semester. Students must pay cash for books unless their financial aid or other resources cover more than 60% (the required registration fee) of their semester charges at registration.

#### Cafeteria

Off-campus students and guests pay cash at the door. Guest meals are not included in student meal plans.

#### Checks

Returned checks not honored by the bank carry a \$25 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 one absence 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 voted by the Senior class each year to cover expenses such as class gift, announcements, and miscellaneous class activities. If graduation dues are paid as a previous Southwestern graduate, only half of the dues will be required of the current graduation. If a student does not graduate in that year and applied for graduation in a subsequent year, the applicant will be charged for dues again. Graduation dues are charged to the student accounts in the fall after the senior class organizational meeting.

#### Identification Card

An I.D. card is provided to the student for cafeteria, library, and athletic facility use. The first card is provided free of charge and is valid as long as the student is enrolled. There will be a \$5 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.

## Finances

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Medical insurance is required for all students registered for 6 or more credit hours. Medical insurance can be purchased at registration for \$211 for the academic year if the student is not covered by another plan. No refunds will be made after the second week of classes.

Medical insurance coverage for International students will be charged at approximately the following rate: Fall semester \$625, Spring/summer \$875. (This is the Department of Homeland Security required twelve-month coverage.) No refund 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 begin the process to register 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

Requests for expedited delivery of transcripts will be assessed the following charge: \$25 for express mail service; \$5 for same day service, and \$5 for fax service. 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 are processed more quickly. Replacement diplomas will be assessed a \$50 charge. (See Transcripts, Requesting on page 44.)

### 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

When the total charges for a semester are paid on registration day, a discount of 3% is given on the cash paid for tuition, room, and board. (Before this discount is calculated, all scholarships, loans, grants, awards, other discounts, and university aid funds are subtracted.) Students using this plan must bring with them at registration time the full amount of the package plan, plus miscellaneous charges such as music lessons and private room fee. A cash discount is not given on post-baccalaureate student, ADP, or other discounted programs. This discount does not apply to payments made by credit or debit card.

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

This loan is a five-payment agreement with the University. The first payment, due in July, is 60% of semester charges, and financial aid can be applied toward this requirement. The remaining balance will be divided equally over four payments due the 10th of each month, as follows:

#### Fall Semester

July	First payment, minimum of 60% of semester charges
August 10	Second payment
September 10	Third payment
October 10	Fourth payment
November 10	Final payment

Students must go to the University portal in July to choose this payment option at [www.swau.edu](http://www.swau.edu).

#### Spring Semester

December	First payment, minimum of 60% of semester charges
January 10	Second payment
February 10	Third payment
March 10	Fourth payment
April 10	Final payment

Students must go to the University portal in December to choose this payment option at [www.swau.edu](http://www.swau.edu).

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

This loan is a four payment agreement with the University. A minimum of 60% will be paid at the time of registration, with financial aid as a part of that payment. The remaining balance will be divided into three payments due on the 10th of each month, as follows:

#### Fall Semester

At Registration	First payment, minimum of 60% of semester charges
October 10	Second payment
November 10	Third payment
December 10	Final payment, which is the remaining balance owed.

#### Spring Semester

At Registration	First payment, minimum of 60% of semester charges
February 10	Second payment
March 10	Third payment
April 10	Final payment, which is the remaining balance owed.

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 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

# Finances

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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.

## Wiring Money

Contact the Admissions Office, Business Office, or Student Financial Services for instructions on wiring money to a student's account.

## Refunds

### Tuition, Room & Board Institutional Refund

Tuition charges for students dropping classes will continue until the drop voucher is filed at the Records Office.

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.

Refunds to students dropping all, or some, classes will be prorated on a weekly basis as shown in the chart below. Room and board refunds are prorated on a daily basis.

Week	Refund % Tuition
Registration Week	100%
Second Week	84%
Third Week	72%
Fourth Week	60%
Fifth Week	48%
Sixth Week	36%
Seventh Week	24%
Eighth Week	12%

Refunds are not made on these items:

- Insurance
- Missed cafeteria meals
- Music lessons two weeks after registration day
- SA fee
- Technology Fee
- 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 Perkins 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. Contact Student Financial Services for information regarding this policy, including examples of the application of this policy.

## Financial Aid

### 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 15. 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 application. The annual award ranges from \$555 to \$5,550.

#### 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.

#### 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.

### State Grant Programs

Information about grants available through your state of residence may be viewed at <http://www2.ed.gov/students/college/aid/other.html>.

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 more information.

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### 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 program a student must establish eligibility through the FAFSA (or TASFA for students who 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 \$3,500. Students who received their first TEG award after September 1, 2005 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:

- maintain an overall grade point average of at least 2.5
- as an undergraduate student complete at least 24 credit hours in their most recent academic year
- as a graduate student, complete at least 18 credit in their most recent academic year

### Leveraging Educational Assistance Partnership (LEAP)

These federal funds match TEG funds and have the same eligibility requirements as for TEG. Annual awards range from \$100 to \$1300.

### Special Leveraging Educational Assistance Partnership (SLEAP)

SLEAP Grants are federal funds that match state TEG funds. Eligibility requirements are the same as for TEG. Awards cannot exceed \$1786.

### 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 compliment each recipient's educational program or career goals.

#### 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. Students receive paychecks monthly through the Business Office.

#### Texas Work-Study (TWS)

This is a state-sponsored program. Students receive monthly paychecks through the Business Office for their on-campus jobs.

### Student Loan Programs

Eligibility for the following programs is based upon results of the FAFSA. Loan programs 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.

#### 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.

**Federal Direct Loan**

This is a federally regulated loan program with the U.S. Department of Education. Loans disbursed on or after July 1, 2011 carry a 3.4% fixed interest rate. 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 loan limits, dependent students may borrow \$2,000 each year from the Federal Unsubsidized Direct Loan. In combination with the Direct Loan maximums, independent 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 for this loan program is 6.8%. Interest payments can be made during the in-school period or will be capitalized upon entering repayment.

**Federal Perkins Loan**

Southwestern Adventist University is the lender for this federal program. Freshmen and Sophomores may borrow up to \$1,500; Juniors and Seniors up to \$2,250. Interest on this loan is 5% and repayment does not begin until nine months after the student ceases to be enrolled on at least a half-time basis. Because of limited funding, Southwestern requires that a student be awarded a Federal Direct Loan before being considered for a Federal Perkins Loan. Students must sign a master promissory note at the time of their initial Perkins loan.

**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. Interest is variable not to exceed 9% for loans disbursed before July 1, 2006. Loans disbursed after July 1, 2006 carry a 7.9% fixed rate.

**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 3% or 5% origination fee will be deducted from the proceeds of each loan. Interest is a fixed annual rate of 6%. Apply at [www.HHloans.com](http://www.HHloans.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:

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- Texas resident
- 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.
- Has not earned a bachelor's degree
- Enrolled full time in an undergraduate degree program, and
- 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](http://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 the University website [www.swau.edu](http://www.swau.edu). 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 website..

### Applying for Federal/State Aid (Priority Date: March 15)

1. Complete Free Application for Federal Student Aid (FAFSA) new or renewal application on the Internet at: [www.fafsa.ed.gov](http://www.fafsa.ed.gov). PIN #'s for new or renewing applicants may be requested at [www.pin.ed.gov](http://www.pin.ed.gov). If student does not have access to the internet, he can request a paper application by calling 800-4-FED-AID (1-800-433-3243). The application is available in English or Spanish.
2. The following forms are required to complete your financial aid file:
  - Results of your FAFSA.
  - Southwestern Adventist University Financial Aid Application.
  - Copies of '10 tax returns and other documentation requested if the Federal Processing Center flags a student's application for additional verification.

## 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, educational subsidy, and cash discounts. 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:

- TEG (Tuition Equalization Grant), LEAP/SLEAP Grants
- TCWS (Texas College Work-Study Program)
- Texas B-On Time Loan Program
- FSEOG (Federal Supplemental Educational Opportunity Grant)
- FWS (Federal Work-Study Program)
- Federal Perkins Loan

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

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

**Clinical Laboratory Sciences** - Students who attend one of our affiliated colleges for their final year of study in the Clinical Laboratory Sciences 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.

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## Financial Aid Disbursement

**Federal Pell Grant/FSEOG** — award is divided over two semesters. The Business Office transfers funds directly to the student's account.

**TEG/LEAP/SLEAP**— award is divided over two semesters. The Business Office transfers funds directly to the student's account.

**Federal Direct Loan, Federal Unsubsidized Direct Loan** — two disbursements for each loan period. The Business Office transfers funds directly to the student's account.

**Federal PLUS** — two disbursements for each loan period. Funds from the lender are electronically transferred to the student's account.

**Federal Perkins Loan** — two disbursements for each loan period. The Business Office transfers funds directly to the student account.

**Federal and State Work Study** — student receives a monthly paycheck through the Business Office.

## 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%

Students who work at the minimum level of any interval will be expected to perform at a higher rate of completion in future semesters. This will be individually monitored and the performance expectation will be communicated to the student.

### Maximum Attempted Hours

Bacclaureate Degree	192
Associate Degree	96
MBA, MEd	54

Students who find that they have exceeded the maximum time allowed for completing a degree because of a change in majors, will need to go through the appeal process for a determination as to whether they may continue to receive federal student aid. The degree audit will be reviewed as a part of the appeal process.

Additional requirements apply to recipients of the Tuition Equalization Grant (TEG). Students who receive or were awarded their first TEG before September 1, 2005, must meet the same

guidelines as outlined in the institution's policy above. Students awarded their first TEG award after September 1, 2005 must be enrolled three-quarter time and at the end of an academic year in which the student receives a renewal award, must have completed 24 credit hours of coursework during the previous academic year, and have a cumulative GPA of 2.5 or greater. 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. 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 for students awarded TEG for the first time on or after September 1, 2005, the Student Finance Committee may allow an otherwise eligible person to receive a TEG while enrolled less than full time or if the student's grade point average or number of hours completed falls below the satisfactory academic progress requirements.

Academic progress will be reviewed at the end of each fall, spring, and summer semester. When a student fails to meet the GPA and/or completion percentage standards they will be given a warning semester during which they must complete a Satisfactory Academic Progress Contract. If the student is not making satisfactory academic progress at the end of the warning semester, the student will be placed on financial aid probation. To receive financial aid during a probationary semester, the student must appeal to the Student Finance Committee stating the reason the student failed to make SAP and what has changed in the student's situation that would allow the student to demonstrate satisfactory academic progress at the next evaluation. A student who does not meet SAP standards or the Student Finance Committee prescribed academic plan at the end of the probationary semester, will be placed on financial aid suspension 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 students federal and state aid until the SAP contract has been signed , or the suspension appeal has been approved. Suspension 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.

## **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 Office of Admissions and 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. Departments that hire students include:

- Academic Departments
- Administrative offices

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- Building maintenance
- Cafeteria
- Custodial
- E.G. White Research Center
- Grounds
- KGSW Channel 31
- Laboratories
- Library
- Media services
- Radio Station 88.3
- Residence Halls
- Security
- Switchboard

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

Students who work for the University may pick up their earnings checks at the cashier's window on the first day of each month. Students who have chosen a monthly payment plan and are current with their payments can receive up to 50% of their paycheck. Students who are not current with their monthly payment plan can receive up to 20% of their paycheck.

### Tuition Discounts

#### English as a Second Language (ESL)

Students who take 12 or more ESL credit hours in a semester will receive a tuition discount of \$3,169. No other Southwestern scholarships are available to students during that semester.

#### Family Discounts

When parents are supporting three or more students from the same family at Southwestern, each of these students may receive a 10% discount on tuition, provided each student of this family is taking at least 12 hours of class work. When students marry, they are no longer eligible for this special discount, even if they had been entitled to it while members of their parents' household. This discount does not apply to discounted programs.

The spouse of a full-time student is eligible for free tuition up to \$500 per semester. All admission procedures still apply. When both students are full-time, the couple may choose which one will receive the \$500 scholarship. This scholarship does not apply to the PBS, or other discounted programs.

#### Lab School Graduate Students

Students who teach for one of the University's lab schools (schools in districts who have a contract with the Education Department for student teaching) will receive a 50% tuition discount for graduate classes taken on campus. Distance learning classes will be assessed an additional fee.

## Post-baccalaureate Student (PBS)

Post-baccalaureate students receive a 50% tuition discount for undergraduate courses. This does not include classes in nursing, student teaching, ESL, independent study, private lesson fees or laboratory charges. See page 11 for definition of PBS student. Students receiving the PBS discount do not qualify for other University Scholarships.

## Scholarships

### Merit Scholarships

#### 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.

#### Award

Trustee	\$5,000
Trustee Plus*	\$6,000
Presidential	\$3,000
Presidential Plus*	\$4,000
Achievement	\$2,000
Achievement Plus*	\$3,000

\* Reflects 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 is divided by 32. The sum of the GPA and Test calculation give a score that determines the award: Trustee Award 85-100; Presidential Award 75-84; Achievement Award 65-74.

Students who received their first award before the 2010-2011 academic year can receive a renewal scholarship for three years by continuing full-time enrollment and maintaining a 2.0 GPA.

Students who receive their first award during or after the 2010-2011 academic year 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:

- 3.5 or greater for the Trustee Award
- 3.0 or greater for the Presidential Award
- 2.5 or greater for the Achievement Award

Students increase their renewal scholarship 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.

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Students who begin attending Southwestern in their first year of college but did 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 will affect the renewal of these scholarships.

## Leadership Scholarships

These scholarships are for one year and applicable only for incoming freshmen at Southwestern and are over and above any Southwestern academic scholarship 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	\$2,500
Senior Class President	\$2,500
Senior Class Valedictorian	\$2,500
Student Association Vice President	\$2,000
Yearbook Editor	\$2,000
Newspaper Editor	\$2,000
Senior or Junior class officer	\$1,000
Student Association officer	\$1,000

## Endowed Awards and Scholarships

To give formal and public recognition for outstanding scholastic achievement, loyalty to university standards, and exemplary citizenship, the university conducts an Awards Convocation each spring. Some of the awards and scholarships given to students during the convocation are described on pages 35,36 and 37.

## Gold or Silver Award

Students who have completed 75+ hours of college credit at the end of the fall semester with a GPA of 3.90+ will receive a Gold Award of \$600. Students who have completed 75+ hours of college credit with a GPA of 3.70 to 3.89 will receive a Silver Award of \$400. Recipients of these awards must be currently enrolled in at least 12 hours for the spring semester and must have earned (in residence) a minimum of 12 hours of credit in the fall. Students who have been under citizenship probation any time during the school year automatically forfeit all eligibility for this award. This award is given to returning students during the following academic year.

## Southwestern Scholars

The Southwestern Scholars Award is given to students who achieve the level of Finalist, Semi-finalist, or Commended Scholar in the National Merit Qualifying Test. Students must take the Pre-SAT test their junior year and the SAT test their senior year to qualify. Selection is determined by SAT officials.

Finalist	100% tuition	(renewable 3 years)
Semi-Finalist	50% tuition	(renewable 3 years)

Students may also qualify by scoring at or above the 99.5 percentile on the ACT or SAT (a sum of the ACT skill area scores totaling 132 or greater or a composite SAT verbal and math score of 1550). 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 Semi-finalist or Finalist and who have at least a 3.5 cumulative GPA are also eligible for this award. These awards are determined after all grant money and/or assistance is applied for and received. Students who qualify for both the Freshman Award and the Southwestern Scholars Awards, receive the higher of the two.

### **Transfer Scholarship**

A transfer student with at least 24 cumulative college credits from other colleges may qualify for one of the following scholarships:

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

All official transcripts from previously attended colleges must be on file with SWAU 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 scholastic 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 to cover these charges.

### **4-Way Match Scholarship**

A 4-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. The student must contribute \$500 in earnings during the semester, whether from on campus employment, or from an off campus job. It is also the responsibility of the student to obtain a commitment from two different sources. Thus, earnings of \$500 and contributions of \$500 each from two different sources may be matched by \$500 from the university. While \$500 is the maximum award, smaller 4-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) contribution of \$500 in earnings from student employment, c) unmet need by the federal aid calculation and d) 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 4-Way Scholarship match. To receive the Southwestern match, all contributions (including student earnings of \$500) must be received by December 1 for fall semester and April 1 for spring semester.

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### 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 grants and loans for which they are eligible, and have a minimum GPA of 2.0. This scholarship is awarded late in the semester.

### Pechero Family Scholarship

The Pechero 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. Application is required each year.

### Southwestern Adventist University Need-based Scholarship Credit Policy

If after being awarded a Southwestern Adventist University need-based scholarship the student receives additional aid or resources that cause a credit on the student's account, the Southwestern portion of the scholarship may be forfeited. Southwestern does not pay its scholarships in cash to the student.

### 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.

### 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. This scholarship does not include PBS students. 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.

**Summer Tuition Scholarships**

The Summer Tuition Scholarship benefits students who attend Southwestern for the first time during a summer session. The scholarship will be awarded for the fall semester immediately following the enrollment and will be equal to the amount of tuition paid for one summer class.

**Summer Work Scholarship**

Students who pay rent for campus housing during the summer and work a certain number of hours at a campus job, 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.

**Endowed Scholarships**

The following scholarships are awarded during spring semester to students who are returning to Southwestern Adventist University the following school 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.

- 1993 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\*
- Frances I. Clark Scholarship
- Jimmie C. Culpepper Scholarship
- John & Joan Curnow Student Missionary Scholarship
- Clarence W. Dortch Scholarship
- Edwards-Wiest Scholarship
- El Jean Scholarship
- Entrepreneurship Scholarship

- 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
- James K. Hopps Scholarship\*
- Victorine Zaidan Kafrouni Scholarship
- Cecil E. Lambeth Scholarship
- Elder George E. & Pearl Leffler Scholarship
- George E. Leffler, Jr. Scholarship
- Florence Lemke Nursing Scholarship
- George Mathews Scholarship
- Daniel & Ruth McAdams Scholarship
- Jason Mickley Scholarship
- Cyril & Marian Miller Scholarship
- Fred B. & Blanche Gilbert Moore Scholarship
- Peggy A. Norris Memorial Scholarship
- Sheree Parris Nudd Communication
- Scholarship Odyssey Harbor Scholarship
- Shirley Pinterich Scholarship
- Charles Popejoy Scholarship
- Bruce Prindle Scholarship
- Ed & Janelle Reifsnnyder Scholarship
- V.L. & Alga Robers Scholarship
- Herbert & Irene Roth Scholarship
- Alma Saylor Sandefur 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
- Spells Family Scholarship
- Wes Stoops Scholarship Southwestern Union Scholarship
- Student Association Presidents' Scholarship
- Eugene V. Thomsen 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.



## 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:

- Fall Semester
- Spring Semester
- Summer Semester

The academic calendar is printed inside the front cover of the *Bulletin*. It 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 e-mail. 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.

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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 web 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 16 credit hours per semester. A class load of 12 credit hours meets the minimum class load requirements for international students, financial aid and veterans.

## 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 between 9:00 and 10:30 p.m. indicating that classes will be delayed or cancelled, or that the University will be open as usual on the following day. If it is not determined until early morning that classes must be delayed or cancelled, an announcement will be made by 6:00 a.m. You may check the following for official delay or closing announcements: University radio station, NBC 5 KXAS TV, [www.nbc5i.com](http://www.nbc5i.com), [www.swau.edu](http://www.swau.edu) or the University switchboard operator at (817) 645-3921.

## General Enrollment Policies

### Registration

Registration is available to all students using the web 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 end of the first week of classes will



have their class registration cancelled. Faculty advisors are available to assist students with registration and in planning an academic schedule. The chair of a department is considered the primary advisor for students majoring in programs offered by the department. Other faculty may be assigned as advisors by the department chair. Advisor and advisee assignments are maintained by the Office of Admissions and Records and displayed on the web portal. With the assistance of a faculty advisor, it is important that a student becomes familiar with all degree requirements and understand 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 for justifiable reasons may be allowed to register after the first week of the semester. 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 Office of Admissions and Records 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 Office of Admissions and Records. 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 Office of Admissions and Records 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.

### **Selected Topics**

Most departments of the University list selected topics and courses in the *Bulletin* and class schedule. These courses offer opportunities for departments to schedule directed reading and research for credit. Students desiring to enroll in a selected topics course must have written approval of the instructor, department chair, the Vice President for Academic Administration. The form is available in the Office of Admissions and Records.

Generally, students in selected topics courses take the class individually and are required to read widely, follow approved research methods, and present a paper or project showing competence in the area of study. Three clock hours of academic work per week are required

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for one semester credit hour. Questions regarding selected topics studies in a particular area should be directed to the department chair.

### Academic Progression

A student may register for upper-division classes (numbered 300 and above) provided that she/he has completed a general education mathematics courses, 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 signatures of both the teacher for the class and the registrar are 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. Students auditing a class must have the appropriate background and meet all prerequisites.
5. Tuition to audit is one-half of the regular tuition, unless it is part of the tuition package.
6. Course and lab fees that are part of an audited class are not waived.
7. The level of participation in class requirements and activities is determined by the instructor.
8. 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 a D 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. Students may not receive credit for a course more than once with the exception of music performance and selected 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 course may be offered on an independent basis. An independent class consists of course work done outside the classroom under faculty supervision. Weekly conferences 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 and alternatives like a class substitution and/ or waiver is not possible. The faculty advisor submits a request in behalf of the student to the instructor of the course and

his or her department chair. A form for this purpose is available in the Office of Admissions and Records. 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.

## **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**

Mid-term and final grade reports are available to students and advisors through the web 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 (see page 54). Only the end-of-semester grades are recorded on the permanent record.

### **Grading System**

<b>Grade Symbol</b>	<b>Grade Points</b>
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–	0.7
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*

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\*P and CR represent grades of C or better

### Incomplete Grades

A temporary grade of incomplete may be awarded only upon the approval and submission by the faculty member involved. Incompletes may not be entered on the faculty portal and are submitted directly to the Office of Admissions and Records on a form designed for this purpose. An incomplete grade of I indicates that the student was unable to complete all of the class work because of illness or other unavoidable circumstance. The student must complete the remaining required work no later than nine weeks from the end of the semester during which the course was taken. This due date is published in the academic calendar of this *Bulletin*. The instructor must submit a grade to replace the incomplete by the end of the semester during which the student completes the class. If the circumstance is of such a nature that it may require additional time, the student must submit a request for an extension to the Academic Standards and Practices Committee.

### 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. 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

To request a university transcript, a signed request must be submitted to the Office of Admissions and Records one week in advance of desired mailing. A faxable transcript request form is available on the University web-site. There is no charge for transcripts, except when requesting express mail (\$25), same day service (\$5), or fax service (\$5). Payment is required in advance. A transcript is not released if a student's financial account is not clear.

### 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 Sanction Policies

Students must achieve a minimum cumulative GPA of 2.00 in order to graduate. The current semester GPA, as well as the cumulative GPA of every student, whether full or part-time, is calculated after each semester grading period. The University will notify students when their performance is not reaching that minimum level.

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

### **Academic Warning**

When a student's semester GPA falls below 2.00 while the cumulative GPA remains above 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, 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 SWAU 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 Academic Vice President and the Academic Support Advisor will monitor the student's progress during the probationary period. A student on academic probation must be aware that her/his academic career are 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. Development of a Contract for Academic Success
5. A biweekly conference with the Academic Support Advisor
6. Completion of all registered classes with minimum grade of C.

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 SWAU. A suspended student may apply for readmission to SWAU 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.

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### Academic Honors Policies

#### Dean's List/Dean's Distinguished List

Special recognition and scholarships are given at the end of each semester to students having high GPAs. Two lists of these names are posted. One is the Dean's Distinguished List, for which a student must have a semester GPA of 3.75 to 4.00 on at least 12 hours of completed college level class work. The other is the Dean's List, for which a student must 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.

#### Gold Award

Students who have completed 75+ hours of college credit at the end of the fall semester with a cumulative GPA of 3.90+ will receive Gold Awards of \$600. Recipients of this award must be currently enrolled in at least 12 hours for the spring semester and must have earned (in residence) a minimum of 12 hours of credit in the fall. Students who have been under citizenship probation any time during the school year automatically forfeit all eligibility for this award. This award is given to returning students during the following academic year.

#### Silver Award

Students who have completed 75+ hours of college credit at the end of the fall semester with cumulative GPAs of 3.70 to 3.89 will receive Silver Awards of \$400. The same enrollment, residency, and citizenship stipulations apply to the Silver Award as stated under the Gold Award. This award is given to returning students during the following academic year.

An eligible student will receive either a Gold or a Silver Award one time.

### 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.

- GPA of 3.50 to 3.74 may graduate *cum laude*
- GPA of 3.75 to 3.89 may graduate *magna cum laude*
- 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*.

### Departmental Recognition

Upon recommendation of the major department, bachelor's degree candidates may be given departmental recognition if the GPA in the major area is at least 3.50 and the cumulative GPA is at least 3.00. The candidate must also have earned 64 hours in residence to qualify for this departmental recognition.

### Honors Graduate

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

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## Examination/Credit Policies

### Final Examinations

In order to complete the semester, each student must take final examinations as scheduled. The final examination is considered to be such an important part of each course that every class has its own final examination period. The final examination schedule is part of the class schedule and is available to students and faculty through the web 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. A form may be obtained from the Office of Admissions and Records.

### 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 or on the internet under Vice President for Academic Administration.

### 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 in the Office of Admissions and Records. Fees for these examinations are listed under Other Expenses in the Finances section of the *Bulletin*.

#### Examination Guidelines

1. A student must have approval for an examination on file in the Office of Admissions and Records 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.

### Challenge Examinations

Challenge examinations, if completed successfully, will result in credit recorded on the academic transcript.

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 Office of

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Admissions and Records for evaluation. A detailed list of the CLEP examinations, the required scaled score, and the credit awarded is available on the University web site and in the Office of Admissions and Records. There is a CLEP examination fee and a recording fee.

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 in the Office of Admissions and Records. There is an examination preparation fee and a 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 at the Office of Admissions and Records. There is an examination preparation fee but no recording fee.

### Validation Examinations

Students who have transcripts from non-accredited colleges, transcripts showing non-transferable 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 Office of Admissions and Records will assist the student to have an examination prepared and administered. There is an examination preparation fee but no recording fee.

### 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 Office of Admissions and Records for evaluation.
3. 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 web site and in the Office of Admissions and Records.

### Transfer Credit

Students who want to register for off campus classes while earning their degrees at the University must request permission from the Academic Standards and Practices Committee. Special petition forms for this purpose are available at the Office of Admissions and Records, and must include the course specifics and intended institution.



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 and English as a Second Language (ESL) courses will not be accepted for transfer credit.

Credit may be accepted from certain unaccredited institutions. Students transferring credit from an unaccredited post secondary institution must have an institutional grade point average of at least 2.0. 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 Admissions and Records will assist persons eligible for veterans educational assistance benefits.

### **Outcome Assessment**

In keeping with the University's commitment to program improvement, and in accordance with the criteria regarding institutional effectiveness established by the University's accrediting agencies, the University has established several measures to assess effectiveness in meeting its stated educational goals. Students will take tests or complete surveys designed to measure achievement in general education and/or selected major areas, academic support services, student and spiritual life, and administrative areas for the purpose of evaluating institutional effectiveness.

### **Graduation Requirement Policies**

#### **Quality Enhancement Plan (QEP)**

Southwestern Adventist University's Quality Enhancement Plan, "Improving Research Skills and Writing through Information Literacy," brings together four aspects of education -- research, writing, critical thinking, and information technology --and integrates these aspects into the curriculum through a matrix of classes delivered through the general education curriculum and by the specific academic departments. Each student must complete these requirements in order to graduate.

### **QEP Curriculum Four-Year Matrix**

#### **Freshmen**

- UNIV 110 Principles of Active Learning
- ENGL 121 Freshman Composition
- CSIS 102 Microcomputer Literacy and Applications

#### **Sophomore**

- ENGL 220 Research and Professional Writing
- UNIV 201 Research in the Academic Discipline (Academic Departments may designate a particular class to fulfill this requirement.)

#### **Junior/Senior**

Two upper-division classes within the student's major designated as fulfilling the requirements of the QEP (Writing, Research, Technology, and Critical Thinking). This requirement may be fulfilled by one upper-division class and the Capstone class if the academic department has a separate class for the completion of the portfolio.

A Capstone Class designated by the student's major academic department.

#### **Portfolio**

The requirement for the portfolio will be set by the QEP committee and the academic departments. The portfolio will be completed in either the Capstone class or a specially designated portfolio class.

### **Baccalaureate Degree**

The University awards three types of baccalaureate degrees: the Bachelor of Arts, the Bachelor of Science and the Bachelor of Business Administration. 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 128 semester credit hours, including 40 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 a minimum of 32 semester credit hours in residence. The last 38 credit hours earned prior to graduation must include 32 credit hours in residence.
- Complete the requirements for a major field of specialization with a minimum cumulative grade point average of 2.25. 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 designated by the major.
- Take the College Base General Education examination prior to graduation.

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.

- Complete 6 semester credit hours of a foreign language at the intermediate level as part of the general education program.

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. The BBA degree cannot have a second area of emphasis, and 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 158 semester credit hours, and 32 credit hours in residence.

## **Associate Degree**

Students must meet the following requirements:

1. Be recommended by the faculty and approved by the Board of Trustees.
2. Complete at least 64 credit hours.
3. Satisfactorily complete the requirements for classes in the major, general education, and 24 semester credit hours in residence.
4. Earn a minimum cumulative GPA of 2.00.
5. Earn a minimum cumulative GPA in the major courses of 2.00. No class with a grade below C– may apply toward the major.

## **Graduation Procedures**

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*.

**An application for graduation** must be completed and filed in the Office of Admissions and Records three semesters before the student expects to graduate. Ordering deadlines for gowns and diplomas require that each student finalize all arrangements for graduation one semester prior to a graduation ceremony.

**A Graduation Contract** must be completed and returned to the Office of Admissions and Records no later than one week after the start of the senior year.

Any transfer work must be completed and the official transcript of this work must be in the Office of Admissions and Records by March 1 for May graduates, July 15 for August graduates, and November 15 for December graduates.

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. The amount of dues is determined by the class with the approval of the president. If graduation dues were paid as a previous graduate, only half of the dues will be required for the next degree.

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

### Graduation Ceremonies

The commencement ceremonies are held at the end of the fall and spring semesters each year. Students eligible to participate in graduation must complete all arrangements with the Office of Admissions and Records prior to January 15 in order to be included in the ceremony. The program for each commencement ceremony lists the names of all degree candidates.

Diplomas showing graduation are issued following each graduation date, subject to financial clearance.

### Deferred Graduation

Seniors in their last semester, who are registered at the University for all remaining hours and who fulfill their graduation requirements by the end of the semester, may participate in the graduation exercises. An exception will be made for students whose requirements are incomplete because of D's, F's, or I's in no more than two of these final classes. They may still participate in the graduation exercises if documented evidence is provided that any remaining requirements can reasonably be completed prior to the next graduation deadline. The student will be listed as a candidate for graduation in the graduation program. After April 15 of the following year, students will be expected to meet the graduation requirements of the new *Bulletin*.

### Special Program Policies

#### Transitional Program

Freshman students are placed in this program on the basis of entrance examination or placement test scores and/or high school grades. Students will be required to take one or more of the following remedial courses: UNIV 011, ENGL 021, MATH 011, MATH 012. Credit received from these courses does not apply to the requirements for a degree. However, the credit will apply toward the minimum course load for full or part-time status.

The academic support services advisor supports the work of the faculty academic advisors to closely advise these students. Students in this program may have reduced course loads, restrictions on extra-curricular activities, and required dormitory residency. The academic support services advisor 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 help students succeed.

Students must earn a minimum grade of C in all required remedial classes and a cumulative GPA of 2.0 or higher, calculated on all courses taken, before completing the program.

### Adventist Colleges Abroad

Through Adventist Colleges Abroad (ACA), qualifying 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. The colleges affiliated with ACA are Colegio Adventista de Sagunto, Sagunto, Spain; Centre Universitaire et Pedagogique du Saleve, Collonges-sous-Saleve, France; Seminar Schloss Bogenhofen, St. Peter am Hart,

Austria; Universidad Adventista del Plata, Entre Rios, Argentina; University of Eastern Africa, Baraton, Eldoret, Kenya; and Instituto Adventista Villa Aurora, Firenze, Italy. Following are the requirements for a year of study abroad:

1. Admission to Southwestern.
2. Complete and return the ACA application form, which is available at the Southwestern's Office of Admissions and Records. An application fee of \$100 is also required. Financial application agreement forms need to be completed at the Student Finance Office before the ACA application is mailed. See Finances section for application procedures and types of aid available.
3. Be competent in the language. The minimum requirement is one year of foreign language study in college or two years in high school.
4. Have a grade point average of 3.00 in the foreign language and 2.50 overall.
5. Have a good citizenship record.
6. Meet the financial requirements. These costs, including transportation, are comparable to those at Adventist colleges in the United States.

A year of study is usually taken during the sophomore or junior year; however, freshmen who have competence in the language are not excluded.

### **Summer Abroad Language Program**

Adventist Colleges Abroad operates summer language programs. These are primarily for students with no previous language instruction. This program is designed to provide students with elementary or intermediate language proficiency, therefore allowing them to enroll in the Year Abroad Program, should they be interested. Contact the Office of Admissions and Records for more information.

### **Student Missionary 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 missionary for 9-12 months.

Student missionaries teach English and Bible in Asia, Russia, Eastern Europe, Central and South America. There are positions to teach in elementary and secondary classrooms in Micronesia and the Marshall Islands. Pre-med and nursing students can receive experience in their fields working in many different countries as medical assistants or nurses. Religion majors can get experience in Australia and New Zealand as youth pastors and Bible workers. Assistant dean positions are available in Europe, Australia, and Africa. Students who prefer to stay in the United States may choose to serve as a Taskforce worker for 9-12 months. Taskforce workers are assistant deans at academies, student chaplains, church youth pastors, kindergarten teachers, cooks, Bible and literature evangelists who serve in the United States and Canada.

These are just a few of the hundreds of calls available to students each year for places far and near. The benefits of going as a student missionary include improving your Christian walk, travel, learning about a new culture and language, new friends, scholarships, and strengthening personal resumes. Check out [chaplain.swau.edu](http://chaplain.swau.edu) for more information.

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### 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.

\*Nursing students see the item "Nursing Student's Grievance Policy".

#### 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.

**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.

**For academic policy and procedure appeals:**

1. Registrar
2. Vice President for Academic Administration
3. Academic Policies Committee

**Student Records - Student Rights**

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

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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

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 Descriptions

### 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

- Lec - the number of 50-minute lecture periods per week.
- Lab - the number of clock hours in laboratory per week.
- 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.

- (Fall) - taught every fall semester
- (Spring) - taught every spring semester
- (Fall, odd years) - taught fall 2011, 2013, etc.
- (Fall, even years) - taught fall 2012, 2014, etc.
- (Spring, odd years) - taught spring 2011, 2013, etc.
- (Spring, even years) - taught spring 2012, 2014, etc.
- (Fall, Spring) - taught every semester
- (Summer) (Offered periodically)

**Academic Programs****Bachelor of Arts (BA)**

- Biology
- Chemistry
- Communication - emphasis in Advertising and PR, Graphic Communication, Journalism, Radio-TV-Film
- English
- European Civilization
- History
- Interdisciplinary Studies
- Life Science
- Mathematics
- Music
- Religion
- Social Science
- Social Science - emphasis on International Affairs
- Theology

A minor is required for Bachelor of Arts degree.

**Bachelor of Business Administration (BBA)**

- Accounting
- Finance
- International Business
- Management
- Marketing

**Bachelor of Science (BS)**

- Business/Kinesiology
- Biochemistry
- Biology
- Business/Computer Info Systems
- Business

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- Chemistry
- Clinical Laboratory Sciences
- Computer Science
- Communication - emphasis in Advertising and PR, Journalism, Radio-TV-Film
- Elementary Education, Early Childhood-Grade 4
- Elementary Education, Grade 4 - Grade 8
- Exercise Science
- General Studies
- Interdisciplinary Studies
- Life Science
- Mathematical Physics
- Mathematics
- Mathematics, Secondary Teaching Area
- Music
- Nursing
- Nursing - RN to BS
- Physical Education
- Physical Science
- Psychology
- Psychology, School Guidance
- Social Science
- Social Studies
- Wellness

### Associate of Science (AS)

- General Studies
- Wellness

### Minors are available in the following areas:

- Accounting
- Advertising and PR
- Biblical Languages
- Biology
- Business
- Chemistry
- Coaching
- Computer Science
- Communication
- English
- Finance
- Graphic Communication
- History
- Journalism
- Mathematics
- Music
- Physical Education

- Physics
- Political Science
- Psychology
- Radio-TV-Film
- Religion
- Social Science
- Spanish
- Speech
- Wellness

## **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.

## Academics

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2. **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.
3. **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.
4. **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.
5. **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.
6. **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.
7. **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. 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." (See page 54.)

# General Education

## Purpose

It is the purpose of the General Education Program at Southwestern Adventist University to build a strong foundation for academic and professional programs, and to enrich the intellectual, spiritual, physical and cultural experiences of the student beyond the focus of the specific major.

## Objectives

As a result of a planned education process, the General Education Program will achieve the following student learning outcomes:

1. Expose students to broad areas of knowledge
2. Encourage the improvement and refinement of students' academic skills
3. Foster the strengthening and broadening of students' spiritual lives
4. Encourage the attitudes and practices of healthful living

To demonstrate achievement of those outcomes, students will be able to:

1. Expose students to broad areas of knowledge
  - a. Evaluate algebraic and numerical expressions
  - b. Solve equations and inequalities
  - c. Read accurately and critically by asking pertinent questions about a text, by recognizing assumptions and implications, and by evaluating ideas
  - d. Read literary texts analytically, seeing relationships between form and content
  - e. Understand the various elements of the writing process, including collecting information and formulating ideas, determining relationships, arranging sentences and paragraphs, establishing transitions, and revising written text
  - f. Use the conventions of standard written English
  - g. Write an organized, coherent, and effective essay
  - h. Recognize basic features and concepts of world geography
  - i. Recognize basic features and concepts of the world's political and economic structures
  - j. Recognize appropriate investigative and interpretive procedures in the social sciences
  - k. Understand the fundamental concepts, principles, and theories of the natural sciences
  - l. Demonstrate basic computer skills appropriate to information literacy
2. Utilize interpretive reasoning, strategic reasoning, and adaptive reasoning in all academic subjects.
3. Demonstrate a sense of harmonious interconnectedness between self, others, nature, and God, which exists throughout and beyond time and space
4. Encourage the attitudes and practices of healthful living
  - a. Acquire skills that enable participation in lifetime physical activity
  - b. Understand how individual decision making and behavior impact personal health.

## Requirements

Degree completion includes the general education courses listed below. A bachelor's degree from a United States regionally accredited post-secondary institution fulfills, with the exception of the religion requirement, the general education requirements.

## General Education

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### Bachelor's Degree

1. Principles of Active Learning\* (1 hour)
2. English (12 hours)
  - a. Speech (COMM 111, 113, or 115) (3 hours)
  - b. Freshman Composition (3 hours)  
To be taken the freshman year.
  - c. Research and Professional Writing (3 hours)  
Recommended to be taken the sophomore year.
  - d. Literature (taught in English) (3 hours)  
Recommended to be taken the junior year.
  - e. A required upper division course, with a writing component, in the student's major or minor area of specialization. To be taken the senior year.
3. Health and Physical Education (4-5 hours)  
Choose one of these options:
  - a. Health and Wellness KINT 111 & P.E. Activity Course
  - b. Courtship, Marriage, and Family PSYC 244, Physical Fitness KINA 111, & P.E. Activity Course
  - c. Nutrition KINT 216, Physical Fitness KINA 111, & P.E. Activity Course
  - d. Physical Fitness KINA 111 & three different P.E. Activity Courses
4. Math/Natural and Computer Sciences (12-14 hours)
  - a. Mathematics (3 hours)  
Students will complete at least three hours of mathematics. MATH 110, MATH 121, MATH 181, or MATH 241 can satisfy this requirement.
  - b. Lab Science (two classes) (8 hours)
  - c. Computer Science (1-3 hours) Choose one: CSIS 102, CSIS 104, CSIS 110
5. Religion (12 hours)  
The religion courses provide students with a general orientation to Christian life, increase the student's knowledge of the Bible, and provide an avenue for the development of a maturing Christian faith. It is strongly recommended that students enroll for a minimum of one course each school year in attendance. Applied religion is not to exceed three credits; three of the religion credits must be upper division. Transfer students from non-SDA schools must have three hours of religion credit per 30 credits taken in residence, with a minimum of six hours. Religion classes taken prior to enrollment at the University will be considered for transfer. Non-SDA religion classes taken after enrollment will not be transferred.
6. Social/Behavioral Sciences (12 hours)
  - a. History (6-12 hours)  
(Must include 3 hours in non-American history)
  - b. Choose from these (0-6 hours)  
Economics, History of Western Art, Geography, Modern Language, Political Science, Psychology, Sociology, Survey of Music.
7. Foreign Language (0-6 hours)  
The Bachelor of Arts degree, and some other degrees, require six hours of an intermediate-level foreign language. (6 hours of Hebrew or 12 hours of Greek will count as meeting the intermediate language level requirement.)

Students seeking a degree in Elementary Education must see the Education section of the *Bulletin* for specific general education requirements.

\* All freshmen who have taken less than twelve previous college hours, which does not include credits taken while in high school or by examinations, must enroll in the Principles of Active Learning course.

## **Associate Degree**

1. Principles of Active Learning\* (1 hours)
2. English (6 hours)
  - a. Freshman Composition \*\* (3 hours)
  - b. Research and Professional Writing or a Speech elective (COMM 111, 113, or 115) (3 hours)
3. Health/Physical Education (2-3 hours)  
Choose one of these options:
  - a. Health & Wellness (KINT 111) (3 hours)
  - b. Nutrition (KINT 216) and KINA 111 (3 hours)
  - c. Physical Fitness KINA 111 and one activity course (2 hours)
4. Math/Natural and Computer Sciences (6-8 hours)
  - a. Mathematics/Lab Science (3-4 hours)
  - b. Computer Science (1-3 hours) Choose one: CSIS 102, CSIS 104, CSIS 110
5. Religion (6 hours)  
It is strongly recommended that students enroll for a minimum of one course each school year. Applied religion is not to exceed three credits. Religion classes taken prior to enrollment will be considered for transfer. Non-SDA religion classes taken after enrollment will not be transferred.
6. Social and Behavioral Sciences (3 hours)

\* All freshmen who have taken less than twelve previous college hours, which does not include credits taken while in high school or by examinations, must enroll in the Principles of Active Learning course.

\*\* ENGL 220 is required by some departments.





# Non-Departmental

## General University Courses

### **UNIV 011 - University Strategies (1 hour)**

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.

### **UNIV 110 - Principles of Active Learning (1 hour)**

A course to introduce the freshman student to the skills and concepts needed for academic success, including study skills, basic research procedures, library use, campus-oriented software use, and critical thinking skills.

### **UNIV 201 - Research in an Academic Discipline (1 hour)**

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.)

## Student Missionary Program Courses

### **UNIV 103 - Experiential Program (1-6 hours)**

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.

### **UNIV 211 - Field Experience (6 hours)**

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.

## Adult Degree Program Course

### **ADPS 230 - Prior Learning Assessment (1 hour)**

Prerequisite: Admission to the Adult Degree Program

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.



# University Experience

## Chan Shun Centennial Library

Chan Shun Centennial Library serves as the intellectual center for campus. The library as physical space for contemplation and scholarship experiences thousands of visits every week. As the most public space on campus--open the longest hours--the library building serves as preferred group study and gathering spot during the week.

Resources for students and the community have been chosen to support scholarship, encourage faith, and increase the joy of recreational reading. Consortial agreements ensure that Southwestern's students and faculty have access to academic libraries across the state, which translates into millions of titles available for interlibrary borrowing.

24/7 availability of electronic resources means that students are able to view journals, books, and films, as well as listen to audio selections anywhere in the world that offers internet. The library's digital resources record tens of thousands of hits weekly. All disciplines taught at Southwestern are supported by the digital library as well as the physical library.

Formal research instruction and individual research consultations are offered throughout the week for students and community groups. Students make extensive use of the librarians as research mentors.

The **Adventist Heritage Center** collections give our community unparalleled opportunity for research in primary sources related to early Adventist history, institutional history, and local history. The **Ellen White – SDA Research Center**, a collection within the Adventist Heritage Center that is on long-term loan to Southwestern, houses copies of the unpublished manuscripts authored by Ellen White and research material prepared by the White Estate. Special access provisions grant our students and community the ability to use this faith-building group of documents.

## 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

The Resurrection Pageant, an annual production sponsored jointly by Southwestern Adventist University and the Keene Seventh-day Adventist Church, draws heavily on Southwestern's students, faculty, and staff for directing, acting, and staging. This pageant offers an interactive

## University Experience

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experiential presentation of many of the events the last week of Jesus' life leading up, and including the crucifixion and resurrection.

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.

### **ROUGHwriters**

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 ROUGHwriters 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 Paleontology 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.

### **ADA Support**

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.

### Academic Success and Tutoring

The Vice President for Academic Administration serves as the clearinghouse for tutoring on campus. Departments select tutors and schedule their time, but the Vice President for Academic Administration's office gathers and publicizes this information each semester. No fees are charged for tutoring that is open to an entire class.

Specialized or individualized tutoring may be arranged with the assistance of the Counseling and Student Success staff. Fees may be incurred for individual tutoring.

### 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.

### 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.



# Academic Support Services

## 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 MicroGarden, located in 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.





# Adult Degree Program

## Faculty/Staff

Robert Gardner, Director; Jeanne Mizher, Secretary

## Mission Statement

In keeping with the Christian mission and academic goals of the University, the purpose of the Adult Degree Program is to give a broad spectrum of students an opportunity to learn and to earn college credit through distance education. Distance education is focused on the delivery of a select number of programs and courses. The courses are taught by the same faculty who teach on-campus programs and content, objectives, and outcomes are the same. Southwestern Adventist University faculty and staff are committed to helping distance education students complete their programs successfully.

The Adult Degree Program offers distance education to individuals who often have commitments to family, work, and community that make it impossible to attend classes on campus on a regular basis. Mature and motivated students will find the flexibility of a distance education study program helpful in their pursuit of various higher-education opportunities. The Adult Degree Program has been offered since 1980 and hundreds of students have successfully completed degree and certification requirements in this manner.

## Aims of the Program

The objectives of the Adult Degree Program are:

1. To provide students with distance education courses that contain the same rigor, currency, and quality that is offered in the traditional curriculum.
2. To provide appropriate distance education technology and be responsible for the quality of all aspects of the delivery method.
3. To provide adult degree students with the necessary academic activities required to complete a college degree or certification through distance education.
4. To provide distance education students with access to important academic support services including library and learning resources, information on technology employed in the program, and counseling and testing services.
5. To provide distance education students with a full range of student services appropriate to support the program, including admissions, financial aid, academic advising, registration, delivery of course materials, degree audits, and graduation assistance.

## Admission

Admission to the Adult Degree Program falls under the transfer student admission policies described on page 7 of this *Bulletin*. In addition, the program has set minimum requirements to ensure that the adult orientation of the program is maintained.

Eligible students:

1. Have completed a minimum of 24 transferable semester hours of college credit.
2. Have work experience.
3. Are at least 25 years of age.
4. Have a cumulative grade point average of 2.00 or higher on all previous college work.

## Adult Degree Program

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Adult degree applicants must:

1. Complete an application for admission.
2. Have official transcripts from all previously attended colleges sent to the Adult Degree Program office.

### Transfer Credits

The Office of Admissions and Records is responsible for transfer credit evaluation. Transcripts are reviewed to determine which academic credits will transfer and their applicability to degree requirements. Course credits earned from regionally accredited colleges and universities will be accepted as transfer credit subject to the following guidelines:

1. Courses with grades of C- or higher will transfer.
2. Concurrent enrollment for transfer credit must be approved prior to registering at another college or university. The student must file a request with the Adult Degree Program office, and the course(s) must be approved for applicability of credit for degree requirements.
3. A limited amount of transfer credit from certain unaccredited schools may be accepted upon review by the faculty.
4. Courses considered technical, developmental/remedial, continuing education, co-operative education, extension, English as a Second Language, and non-credit classes will not transfer.
5. Even though credit hours are transferable, the transferred hours may not necessarily apply toward a particular degree program or general education.
6. Religion courses will be considered for transfer.
7. Transfer students' cumulative grade point averages will include both grades earned in courses accepted in transfer and grades earned in courses taken in the Adult Degree Program.
8. Transfer of experiential credit is described below in the section on Alternatives for Acquiring Credit.

### Conditional Admission

Students who do not meet the requirements for regular admission may be conditionally admitted for one term. Criteria for regular admission must be met prior to registering for a second term. Students younger than 25 years of age may be granted an exception by the Adult Degree Committee.

### International Students

Admission requirements for international students are different from the requirements for U.S. citizens. International students who apply to the Adult Degree Program must comply with the academic admission policies on page 7 of this *Bulletin*. General information related to the on-campus residence of international students does not apply.

### Readmission

Former Adult Degree Program students are encouraged to apply for readmission by submitting an updated application. Application for readmission is required for a student who has not registered for three or more consecutive semesters. Transcripts of subsequent work taken at other colleges or universities will need to be submitted. New degree audits will be prepared and reviewed with readmitted students and their faculty advisors. The degree requirements in

effect at the time of readmission will be applicable. Students not maintaining active enrollment will be withdrawn from the program.

### Alternatives for Acquiring Credit

Adult Degree Program students can take advantage of the following alternatives for acquiring college credit:

1. CLEP is a national system of college credit by examination offered by the College Board in Princeton, New Jersey.
2. Proficiency examinations provide the opportunity to challenge a course for credit. The policies for this alternative are also described on page 47 of this *Bulletin*.
3. 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, primarily in business and religion, are available for experiential credit. The student considering this alternative should consult carefully with the Adult Degree Program office for course applicability. Credit awarded through the portfolio does not apply toward the 32 hour residency requirement. In addition to the tuition for the Portfolio Development course, there is an evaluation and transcription fee for experiential credit.

### Financial Information

The tuition rate for students in the Adult Degree Program is \$556 per semester credit hour. There are no scholarship or payment plans for this program. All charges must be covered at the time of registration. Students are eligible for many financial aid plans and are encouraged to contact the Student Financial Services office at the time they apply for admission. Students will be issued an ID card and those who are able to come on campus are welcome to use the library and other facilities like the gymnasium.

### Degree Requirements

Students must meet the graduation requirements described on page 51 of this *Bulletin*. A minimum of 32 hours for the bachelor's degree and 24 hours for the associate degree must be taken in residence. Alternatives for acquiring credit do not apply to the residency requirement. The final 12 credits taken prior to graduation must be completed in residence.

### Academic Policies

The academic policies of the University described from page 39 to page 60 of this *Bulletin* apply to students in the Adult Degree Program. Since most ADP students have additional responsibilities of employment and family, a normal course load is considered to be two courses per term (6-8 credits). Students may take up to 13 credits per term without petitioning for an overload. Petitions for an overload are filed with the Adult Degree Program office and approved by the Academic Standards and Practices Committee.

A student may realize early in the semester that he or she cannot complete a course in a timely manner. The policy for withdrawing from a course is described on page 41 of this *Bulletin*. Students wishing to drop a course need to notify the Adult Degree Program office prior to the last day to withdraw from a class. This date is listed in the Academic Calendar on the inside

## Adult Degree Program

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cover of the Bulletin. The Adult Degree Program office will regularly inform students of the dates for dropping a class. Refunds to students withdrawing from a course are made on a prorated basis. Students will be informed of the eligible refund at the time they request a withdrawal from a course. Withdrawing from a class may also affect financial aid eligibility. The student should check with the Adult Degree Program office to understand the financial impact of reducing course enrollment.

It is expected that students will complete all academic work for a course during the dates designated for the semester of registration. The policy on Incomplete Grades is on page 43 of this *Bulletin*. After first seeking the approval of the instructor, the student files a request with the Adult Degree Program office for an incomplete grade and an extension of time to complete the requirements of the course. The Adult Degree Program office will review the request and forward it to the Vice President for Academic Administration for official action. Incomplete grades may adversely affect the assessment of satisfactory academic progress used to determine eligibility for continuing financial aid.

### Academic Programs

- Certificate
  - Church Ministry
- Associate of Science Degree
  - General Studies
- Bachelor of Science
  - Business
  - Elementary Education
  - General Studies
  - Psychology
  - Social Science
- Bachelor of Arts
  - History
  - Religion
  - Social Science - International Affairs
  - Theology
- Post Baccalaureate
  - Alternative Certification Program

### Distance Education

Distance education courses are available to a wide spectrum of university students. The Adult Degree Program office is available to provide assistance to students in these other programs. The university uses Desire2Learn (D2L) as the on-line course management system. All courses require the student to have access to the Internet and e-mail. Some courses have video lectures which are played on a computer. Other programs which currently use distance education courses are described below.

### Summer Distance Education

Distance education courses offered by Southwestern Adventist University are available for traditional, on-campus, undergraduate students during the summer. The Summer Distance Education course schedule is available for students prior to the beginning of summer registration. Students interested in this option should contact the Adult Degree Program office

for access to the course on D2L. Summer students must first obtain registration approval from the Registrar, his or her academic advisor and receive clearance from the Student Finance office. Adult Degree Program tuition rates apply to courses taken in this program.

### Teacher Certification

For a number of years, the Adult Degree Program has offered the Teacher Education Program through distance education. Post-baccalaureate students interested in completing the requirements for teacher certification must apply for admission to the University and to the Teacher Education Program. See page 136 of this *Bulletin* for further information or contact the Department of Education by telephone at (817) 645-3921 extension 6256 or on-line at <http://www.swau.edu/academics/education.asp>. A special distance education teacher certification program for teachers in the Seventh-day Adventist Southwestern Union Conference is also available. Teachers interested in this program should contact the Southwestern Union Department of Education. The e-mail address is [education@swuc.org](mailto:education@swuc.org) or telephone (817) 295-0476.



## Faculty/Staff

Jonathan Wall, Chair

Adjunct: Joy Chadwick, Marcella Wall

## Aims of the Art Program

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.)

## Courses

### **ARTS 111 - Introductory Drawing (3 hours)**

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. 2 Lec 4 Lab. (Fall, even years)

### **ARTS 131 - Introductory Studio Ceramics (3 hours)**

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. 2 Lec 4 Lab. (Fall, Spring)

### **ARTS 212 - Painting I (3 hours)**

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. 2 Lec 4 Lab. (Fall, odd years)

### **ARTS 221 - History of Western Art (3 hours)**

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. (Spring, odd years)

### **ARTS 223 - Arts and Crafts (3 hours)**

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. (Spring)

### **ARTS 231 - Intermediate Studio Ceramics (3 hours)**

Prerequisite: ARTS 131 or permission of instructor.

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. 2 Lec 4 Lab. (Fall, Spring)

**ARTS 291 - Selected Topics (1-3 hours)**

Prerequisite: Approval by department chair

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.

**ARTS 312 - Painting II (3 hours)**

Prerequisite: ARTS 212 or permission of instructor

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. 2 Lec 4 Lab. (Spring, even years)

**ARTS 331 - Advanced Studio Ceramics (3 hours)**

Prerequisite: ARTS 231 or permission of instructor

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. 2 Lec 4 Lab. (Fall, Spring)

**ARTS 491 - Selected Topics (1-3 hours)**

Prerequisite: Approval by department chair

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.



Faculty/Staff

Suzanne Phillips, Chair  
Arthur Chadwick, Arthur Schwarz, Peter McHenry, Amy McHenry

Aims of the Department

- The objectives of the department are:
- to encourage the study of living organisms,
  - to prepare biology majors in basic and advanced courses that provide a foundation for graduate study, teaching, and research in biology,
  - to prepare pre-professional students in courses that satisfy entrance requirements for medical, dental, and veterinary medical school, and other professional programs,
  - to prepare students anticipating careers in nursing and allied health fields,
  - to prepare students seeking to fulfill general education lab science requirements, and
  - to prepare students to respond intelligently to Creation/Evolution issues.

Programs

The department offers a Bachelor of Arts and a Bachelor of Science degree in biology. The B.A. degree requires 36 semester hours in biology and includes a foreign language component. The B.S. degree requires 40 semester hours in biology and emphasizes course work in biology and the sciences. Required cognate courses are specified for each degree. Southwestern Adventist University requires 40 hours of upper division credit for graduation; it is the responsibility of the student to meet that requirement through electives and general education requirements. The program has flexibility to allow students the choice of elective biology courses of special interest beyond the basic requirements listed below. **It is highly recommended that students consult and follow the suggested class schedules found at <http://biology.swau.edu> .**

Biology, B.A.

BIOL 111, 112	General Biology.....	8
BIOL 230	General Ecology.....	4
BIOL 280***	Principles of Research and Statistics.....	2
BIOL 320	Genetics.....	4
BIOL 340, 344	Molecular Biology and Molecular Bio Tech.....	5
BIOL 419	Philosophy of Science.....	3
BIOL	Elective from Group I.....	4
BIOL 480**	Research in Biology.....	1-2
BIOL 481	Senior Thesis.....	1
BIOL	Elective.....	4
		<b>Total: 36-37</b>

Required Cognates: CHEM 111, 112; MATH 121.  
Recommended Cognates: CHEM 231, 232

# Biology

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## Biology, B.S.

BIOL 111*, 112*	General Biology.....	8
BIOL 230	General Ecology.....	4
BIOL 280***	Principles of Research and Statistics.....	2
BIOL 320	Genetics.....	4
BIOL 340	Molecular Biology I.....	3
BIOL 344	Molecular Biology Techniques.....	2
BIOL 419	Philosophy of Science.....	3
BIOL	Elective from Group I.....	4
BIOL	Elective from Group II.....	4
BIOL	Elective from Group III.....	4
BIOL 480**	Research in Biology.....	1-2
BIOL 481	Senior Thesis.....	1
<b>Total:</b>		<b>40</b>

Required Cognates: CHEM 111\*, 112\*, 231\*, 232\*; PHYS 121\*, 122\*; MATH 121\* +

\* The standard courses required for MCAT (Medical College Admission Test) & DAT (Dental Admission Test) preparation and for medical, dental and veterinary medical school entrance requirements. \*\* May be substituted by up to 2 hours of mentored internship. \*\*\* Must be taken sophomore year. + Texas Medical Schools require MATH 181 or MATH 241.

### Group I Biology of Plants

- BIOL 235 Selected Topics in Field Ecology
- BIOL 314 Systematic Botany
- BIOL 360 Plant Dynamics
- BIOL 335 Limnology
- BIOL 465 Plant Physiology

### Group II Biology of a Taxon

- BIOL 330 Bacteriology and Virology
- BIOL 440 Mammalogy
- GEOL 240 The Dinosaurs
- BIOL 318 Microbiology and Immunology

### Group III Systems Biology

- BIOL 410 Principles of Human Physiology
- BIOL 443 Comparative Vertebrate Anatomy
- BIOL 450 Histology

### Biology Minor

- 18 hours (6 u.d.) of biology, including: BIOL 111, 112.

## Pre-professional Requirements

The entrance requirements for most **medical, dental and veterinary** medical schools are satisfied by the Biology B.S. degree and its cognate requirements of Chemistry, Physics and Math. Professional schools may require additional math or statistics; veterinary and graduate schools often have unique entrance requirements. The pre-professional student must choose

a major from the list on page 57 and should consult with his/her pre-professional advisor to develop the best degree plan to satisfy specific pre-professional requirements.

## Teaching Certification Program

The following Life Science major and minor 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.*

### Life Science B.A. or B.S. - Secondary Teaching Area

The student must meet the requirements for a B.A. or B.S. degree in Biology.

### Life Science Minor - Secondary Teaching Area

#### Option II

BIOL 111, 112	General Biology.....	8
BIOL 230	General Ecology.....	4
BIOL 320	Genetics.....	4
BIOL 419	Philosophy of Science.....	3
BIOL	Electives u.d.....	5
<b>Total:</b>		<b>24</b>

- Recommended courses for graduate school admission: MATH 241
- Recommended courses for pre-professionals: BIOL 111, 112 or 410, 310, 450

## Courses

### BIOL 101, 102 - Anatomy & Physiology I, II (4, 4 hours)

An integrated two-semester study of the anatomy and physiology of human organ systems as well as cellular biology and fluid, electrolyte and acid-base balance. 3 Lec 3 Lab. Does not apply toward a biology major nor minor. (BIOL 101 Fall, BIOL 102 Spring)

### BIOL 104, 105 - Human Biology I, II (4, 4 hours)

A two-semester survey-study of the human body including structure and function, life-span from conception to death, impact of disease processes and injury on the human body, and the interaction of humans with each other and with the environment. Discussion of the impact of healthful living on human physiology is a very important part of this course. This course is designed to meet the General Education Science requirement and does not apply toward a Biology major nor minor. 3 Lec 3 Lab. (BIOL 104 Fall, BIOL 105 Spring)

### BIOL 111, 112 - General Biology (4, 4 hours)

A two-semester course covering the basic disciplines of life science. General concepts in genetics, taxonomy, behavior, ecology, morphology, physiology and speciation of living organisms are taught. High school chemistry highly recommended. 3 Lec. 3 Lab (BIOL 111 Fall, BIOL 112 Spring)

### **BIOL 220 - Microbiology and Immunology (4 hours)**

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, bursal and thymic influences on the lymphoid system, and humoral and cellular immunological response mechanisms. 3 Lec 3 Lab. Lab fee. (Fall)

### **BIOL 230 - Ecology (4 hours)**

Prerequisite: BIOL 111, 112

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 a conservation of biodiversity and wise use of natural resources. The laboratory includes a four-day field trip. 3 Lec 3 Lab. Field trip fee. (Spring)

### **BIOL 235 - Selected Topics in Field Ecology (3 hours)**

Prerequisite: BIOL 111, 112

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.)

### **BIOL 280 - Principles of Research and Statistics (2 hours)**

Prerequisite: BIOL 111, 112, or any entry level science sequence

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. Students will begin the process of senior portfolio development. This course fulfills the requirement for UNIV 201: Research in an Academic Discipline as specified in Southwestern's Quality Enhancement Plan. (Fall)

### **BIOL 291 - Selected Topics (1-3 hours)**

Prerequisite: BIOL 111, 112, and approval of instructor

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.

### **BIOL 312 - Ornithology (3 hours)**

Prerequisite: BIOL 111, 112

A study of native American 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 four-day field trip. 2 Lec 3 Lab. Field trip fee. (Spring)

**BIOL 314 - Systematic Botany (4 hours)**

Prerequisite: BIOL 111, 112

This is a taxonomic study of the flowering plants of Texas. Includes methods for identification and preservation of plant specimens. Laboratory includes a four-day field trip. 3 Lec 3 Lab. Field trip fee. (Offered periodically)

**BIOL 315 - Field Invertebrate Zoology (4 hours)**

Prerequisite: BIOL 111, 112

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 fee covering cost of transportation, room and board, and use of a research vessel. 3 Lec 3 Lab (Offered in odd years)

**BIOL 318 - Microbiology and Immunology (3 hours)**

Taught concurrently with BIOL 220 with emphasis given to critical analysis of problems and case studies. Students will give several presentations and a final infectious disease report.

**BIOL 330 - Bacteriology and Virology (4 hours)**

Prerequisite: BIOL 111, 112, 320

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. 3 Lec. 3 Lab. (Spring)

**BIOL 335 - Limnology (3 hours)**

Prerequisite: BIOL 230

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. 3 Lec. 3 Lab. Field trip fee. (Spring, odd years)

**BIOL 320 - Genetics (4 hours)**

Prerequisite: BIOL 111, 112

The study of inheritance as it relates to man, animals and plants, including a detailed study of molecular genetics. Experimental work in the laboratory involves both lower and higher organisms. 3 Lec 3 Lab. (Fall)

**BIOL 340, 341 - Cellular and Molecular Biology I, II (3 hours)**

Prerequisite: BIOL 111, 112; CHEM 232. Co-requisite: BIOL 344

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, energetics, replication and synthesis, molecular transport, and excitability of cells. 3 Lec (Fall, Spring)

### **BIOL 344 - Molecular Biology Techniques (2 hours)**

Co-requisite: BIOL 340.

Laboratory course in modern molecular biology techniques for gene manipulation and analysis in prokaryotes and eukaryotes. Evaluation and discussion of experimental results in group sessions. Techniques include: plasmid prep., genomic DNA prep. digestion, ligation, making competent cells, knockout construction, transformation, electroporation, Southern analysis, Northern analysis, SDS-PAGE, Western analysis. 1 Lec 3 Lab (Fall)

### **BIOL 360 - Plant Dynamics (4 hours)**

Prerequisite: BIOL 111, 112 or permission of instructor

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. Laboratory includes a four-day field trip. 3 Lec 3 Lab. Field trip fee. (Spring)

### **BIOL 410 - Principles of Human Physiology (4 hours)**

Prerequisite: BIOL 111, 112 or BIOL 101, 102

Principles of Human Physiology is the study of the physiological processes that occur in humans. This one semester course is designed to make students competent in their understanding of human body functions, system by system, and dynamically. Topics included are, an in depth review of metabolism, endocrinology, neurology, muscle physiology, cardiovascular studies, urology and sexual reproduction. 3 Lec 3 Lab (Fall, even years)

### **BIOL 419 - Philosophy of Science (3 hours)**

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 RLGN or GEOL 419.) **This course fulfills the requirement for an upper-division course with components as specified in Southwestern's Quality Enhancement Plan.** (Spring)

### **BIOL 420 - Animal Behavior (3 hours)**

Prerequisite: BIOL 112

A comparative study of behavioral patterns seen in animals and the forces behind them. This course draws from biological fields such as physiology, ecology and genetics, and interfaces with disciplines such as psychology and sociology. (Offered periodically)

### **BIOL 440 - Mammalogy (4 hours)**

Prerequisite: BIOL 111, 112

A systematic study of mammals with emphasis on natural history and ecology. 3 Lec 3 Lab. (Fall, odd years)

### **BIOL 443 - Comparative Vertebrate Anatomy (4 hours)**

Prerequisite: BIOL 111, 112

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. 3 Lec 3 Lab. (Spring, odd years)

**BIOL 450 - Histology (4 hours)**

Prerequisite: BIOL 111, 112

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. 3 Lec 3 Lab. (Spring, even years)

**BIOL 465 - Plant Physiology (3 hours)**

Prerequisite: BIOL 360

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. 3 Lec. 3 Lab. (Spring, even years)

**BIOL 480 - Research in Biology (1-3 hours)**

Prerequisite: BIOL 280 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 BIOL 280. May be repeated for a total of 5 credits. **This course fulfills the requirement for a capstone/portfolio completion course with components as specified in Southwestern's Quality Enhancement Plan.** (Offered periodically)

**BIOL 481 - Senior Thesis (1 hour)**

Prerequisite: BIOL 480

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 the project. Students will give several oral progress-reports, a final presentation at the Biology Research Symposium, and a completed Senior Thesis. **This course fulfills the requirement for a capstone/portfolio completion course with components as specified in Southwestern's Quality Enhancement Plan.** (Spring)

**BIOL 491 - Selected Topics (1-3 hours)**

Prerequisite: BIOL 111, 112; two upper division courses; and permission of the instructor

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.





# Business Administration

## Faculty/Staff

Jerry L. Chi, Chair; Radhames Lizardo, Judith F. Miles, Aaron Moses, Karen Senecal

Adjunct: Fred Harder, Eder Marski, Chanda Reins, James Winegardner

## Mission

Through its undergraduate and graduate programs, the Department of Business Administration prepares students for Christian service and business leadership in the global economy. Our department recognizes that excellence is best pursued through the development of the whole person, and is built on a solid foundation of business ethics and international cooperation.

## Aims of the Undergraduate Business Programs

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

## Graduate Program, MBA

See *Graduate Bulletin*.

Concentration in: Accounting, Finance, and Management/Leadership.

## Programs

### Bachelor of Business Administration (BBA)

- Accounting
- Finance
- International Business
- Management
- Marketing

### Bachelor of Science (BS)

- Business
- Business and Computer Information Systems (Composite Major)
- Business and Kinesiology (Composite Major)

### Minors

- Accounting
- Business
- Finance

# Business Administration

## Degree Requirements

### Business Core Courses

Required of all BBA in Management students.

ACCT 211, 212	Accounting Principles I, II.....	6
BUAD 202	Intro to Contemporary Business.....	3
BUAD 203	Research in Business.....	1
BUAD 211	Profiles of Entrepreneurship.....	3
BUAD 301	Principles of Management.....	3
BUAD 302	Advanced Software Applications.....	3
BUAD 311	Business Law.....	3
BUAD 321	Business Finance.....	3
BUAD 460	Business Ethics.....	3
BUAD 466	Production and Operations Management.....	3
BUAD 472	Business Policies and Strategies.....	3
BUAD 496	Senior Business Seminar.....	1
BUAD	Portfolio.....	0
ECON 211	Macroeconomics.....	3
ECON 212	Microeconomics.....	3
MKTG 343	Principles of Marketing.....	3
<b>Total Business Core:</b>		<b>44</b>

### Cognate Requirement

MATH 241*	Intro. to Probability and Statistics.....	3
<b>Total:</b>		<b>3</b>

*\*MATH 110 is a prerequisite for MATH 241.*

### Portfolio

Each senior student will develop a portfolio of the work that they have done. The portfolio needs to include examples of the student's work, covering the following areas: writing skills, group projects, quantitative analysis, problem solving, and community projects and or service.

Two professors will evaluate the portfolio according to the following scale : extremely good, very good, good, average, below average, poor.

## Requirements by Concentration

### Accounting, B.B.A.

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.

ACCT 315	Intermediate Accounting I.....	4
ACCT 316	Intermediate Accounting II.....	4
	Electives*.....	12-13
<b>Total:</b>		<b>21</b>

*\*Electives to be selected from the following courses*

ACCT 317	Cost Accounting	3
ACCT 319	Fund Accounting	3
ACCT 412	Auditing	3
ACCT 415	Advanced Accounting	3
ACCT 417	Accounting Information Systems	3
ACCT 418	Federal Income Taxes	4
ACCT 492	Accounting Internship	3

**Finance, B.B.A.**

The Bachelor of Business Administration in Finance prepares students with the skills necessary to meet today's business demands and those for the future. This finance curriculum explores the principles of financial analysis and control of individual business firms. It applies these principles to financial management, investment, the valuation and selection of securities, and the influence of the monetary and banking system on economic activity.

BUAD 433	Investment Principles.....	3
BUAD 452	International Finance.....	3
BUAD 488	Advanced Finance.....	3
BUAD 493	Money and Banking.....	3
	Electives*.....	9
		<b>Total: 21</b>

*\*Electives to be selected from the following courses*

ACCT 315	Intermediate Accounting I.....	4
ACCT 316	Intermediate Accounting II.....	4
ACCT 418	Federal Income Tax.....	4
BUAD 251	Project Management.....	3
BUAD 383	Finance Theory and Structure of Financial Markets.....	3
BUAD 422	Portfolio Management.....	3
BUAD 491	Selected Topics.....	3
BUAD 492	Business Internship.....	3

**International Business, B.B.A.**

International business is the current growth area for most organizations: large and small firms, not-for-profit organizations, and the public sector. Students wishing to maximize both their career options and their promotional opportunities in management, marketing, and finance while enjoying the opportunities of travel and cross-cultural activities will find that the more familiar they are with the international arena of business the more likely they will find career satisfaction.

BUAD 317	International Business Communication.....	3
BUAD 451	International Business.....	3
BUAD 452	International Finance.....	3
BUAD 453	Cross-Cultural Studies.....	3
HIST/GEOG 312	Historical and Political Geography.....	3

Business Administration

	Electives*		6
		Total:	21
*Electives to be selected from the following courses			
BUAD 251	Project Management.....	3	
BUAD 372	Human Resource Management.....	3	
BUAD 492	Business Internship or Intermediate-Level Language.....	3	
BUAD 423	Organizational Behavior.....	3	

Management, B.B.A.

This concentration provides education and training in theoretical and applied management principles and functions for students desiring a management career in for-profit, not-for-profit, and governmental entities.

BUAD 317	International Business Communications.....	3	
BUAD 372	Human Resource Management.....	3	
BUAD 423	Organizational Behavior.....	3	
	Electives*		12
		Total:	21
*Electives to be selected from the following courses			
ACCT 317	Cost Accounting.....	3	
ACCT 417	Accounting Information Systems.....	3	
BUAD 250	Project Management and Leadership.....	1	
BUAD 251	Project Management.....	3	
BUAD 451	International Business.....	3	
BUAD 452	International Finance.....	3	
BUAD 453	Cross-Cultural Studies.....	3	
BUAD 492	Business Internship.....	3	
MKTG 303	E-Commerce and Web Site Design.....	3	

Marketing, B.B.A.

The marketing concentration within the BBA prepares students to meet the marketing challenges of today's organizations. Hands-on projects are used to encourage creativity and build marketing skills. Students completing this academic option will be prepared for job opportunities in advertising, sales, e-commerce, product line management, new product development, and customer relationship management.

BUAD 251	Project Management.....	3	
MKTG 303	E-Commerce & Web Site Design.....	3	
MKTG 350	Consumer Behavior.....	3	
MKTG 351	Advertising or		
MKTG 442	Applied Public Relations and Advertising.....	3	
MKTG 402	E-Commerce Environment.....	3	
MKTG 443	Marketing Research.....	3	
	Electives*		3
		Total:	21
*Electives to be selected from the following courses			
BUAD 372	Human Resource Management.....	3	
BUAD 451	International Business.....	3	
BUAD 453	Cross-Cultural Studies.....	3	

MKTG 237	Video Production.....	3
MKTG 241	Public Relations.....	3
MKTG 492	Marketing Internship.....	3

**Business, B.S.**

The Bachelor of Science (BS) in Business prepares students with the skills necessary to meet today's business demands and those for the future. This general business curriculum develops the breadth of management, interpersonal, and professional skills required to advance in today's complex business world. Students can focus their electives in areas as finance, accounting, marketing, human resources, or a second major that meets their professional goals and needs. People who choose this specialization are often pursuing entry-level business positions or seeking to advance their careers in a variety of business functions and settings.

ACCT 211	Accounting Principles I.....	3
BUAD 203	Research in Business.....	1
BUAD 301	Principles of Management.....	3
BUAD 302	Advanced Software Applications.....	3
BUAD 311	Business Law.....	3
BUAD 317	International Business Communication.....	3
BUAD 321	Business Finance.....	3
BUAD 472	Business Policies and Strategies (Capstone).....	3
BUAD 496	Senior Business Seminar.....	1
MKTG 343	Principles of Marketing.....	3
ECON 211	Macroeconomics or	
ECON 212	Microeconomics.....	3
	Electives* .....	9
<b>Total:</b>		<b>38</b>

*\* Students need to consult the Business Department Chair for selecting their business electives.*

**Course Requirements by Minor****Minor: Accounting**

ACCT 211, 212	Accounting Principles I, II.....	6
ACCT 315, 316	Intermediate Accounting I, II.....	8
ACCT	Electives (upper division).....	4
<b>Total:</b>		<b>18</b>

**Minor: Business**

ACCT 211, 212	Accounting Principles I, II.....	6
ECON 211	Macroeconomics or.....	
ECON 212	Microeconomics.....	3
BUAD 301	Principles of Management.....	3
BUAD	Electives (upper division).....	6
<b>Total:</b>		<b>18</b>

**Minor: Finance**

ACCT 211	Accounting Principles I.....	3
ECON 211	Macroeconomics.....	3
BUAD 321	Business Finance.....	3
BUAD 433	Investment Principles.....	3
BUAD 452	International Finance.....	3
	Electives (upper division).....	3
<b>Total:</b>		<b>15</b>

Business Administration

<b>Electives</b>		
BUAD 383	Finance Theory and Structure.....	3
BUAD 422	Portfolio Management.....	3
BUAD 491	Money & Banking.....	3

Composite Major in Business and Computer Information Systems, B.S.

Students who wish to pursue this program must make formal application both to the Department of Business Administration and the Department of Computer Science.

<b>Business Courses:</b>		
ACCT 211	Accounting Principles I.....	3
BUAD 203	Research in Business.....	1
BUAD 301	Principles of Management.....	3
BUAD 302	Advanced Software Applications.....	3
BUAD 311	Business Law I.....	3
BUAD 317	International Business Communication.....	3
BUAD 321	Business Finance.....	3
BUAD 472	Business Policies and Strategies (Capstone).....	3
BUAD 496	Senior Business Seminar.....	1
MKTG 343	Principles of Marketing.....	3
	Electives* .....	9
<b>Total:</b>		<b>35</b>

\* Electives to be selected from the following courses:

ACCT 212	Accounting Principles II.....	3
BUAD 372	Human Resource Management.....	3
BUAD 423	Organizational Behavior.....	3
BUAD 452	International Finance.....	3
BUAD 453	Cross Cultural Communication.....	3
BUAD 460	Business Ethics.....	3
BUAD 392	Business Internship.....	3
BUAD 491	Money & Banking.....	3
ECON 211	Macroeconomics or.....	
ECON 212	Microeconomics.....	3
MKTG 303	E-Commerce & Webpage Design.....	3
	.....	

<b>Required Cognates:</b>		
MATH 241*	Intro to Probability and Statistics.....	3
COMM 115	Discussion Techniques.....	3
<b>Total:</b>		<b>6</b>

<b>Computer Information Systems Courses:</b>		
CSIS 110, 111	Principles of Computer in Programming I, II.....	6
CSIS 125	Discrete Structures I.....	3
CSIS 201	Information Literacy for CS Majors.....	1
CSIS 211	Data Structures & Algorithms.....	3
CSIS 215	Object-Oriented Programming C++.....	3
CSIS 225	Discrete Structures II.....	3
CSIS 245	Introduction to LAN Technology.....	4
CSIS 303	E-Commerce and Web Site Design.....	3
CSIS 315	Application Development for Event-Driven GUI Applications..	3
CSIS 360	Operating Systems.....	3

CSIS 445	Internetwork Architectures.....	3
CSIS 450	Principles of Database Design.....	3
CSIS 490	Software Engineering.....	3
<b>Total:</b>		<b>41</b>

*\*MATH 110 is a prerequisite for this class.*

**Composite Major in Business and Kinesiology**

**Business Concentration:**

ACCT 211	Accounting Principles I.....	3
BUAD 203	Research in Business.....	1
BUAD 211	Profile of Entrepreneurship.....	3
BUAD 301	Principles of Management.....	3
BUAD 302	Advanced Software Applications.....	3
BUAD 311	Business Law.....	3
BUAD 317	International Business Communication.....	3
BUAD 321	Business Finance.....	3
BUAD 472	Business Policies and Strategies.....	3
BUAD 496	Senior Business Seminar.....	1
ECON 211	Macroeconomics or	
ECON 212	Microeconomics.....	3
MKTG 343	Principle of Marketing.....	3
	Business Electives.....	9
<b>Subtotal:</b>		<b>41</b>

*\*Electives to be selected from the following courses:*

ACCT 212	Accounting Principles II.....	3
BUAD 372	Human Resource Management.....	3
BUAD 423	Organizational Behavior.....	3
BUAD 452	International Finance.....	3
BUAD 453	Cross Cultural Communication.....	3
BUAD 460	Business Ethics.....	3
BUAD 392	Business Internship.....	3
BUAD 491	Money & Banking.....	3
ECON 211	Macroeconomics or	
ECON 212	Microeconomics.....	3
MKTG 303	E-Commerce & Webpage Design.....	3

**Cognate:**

MATH 241	Intro to Probability & Statistics.....	3
COMM 115	Discussion Techniques.....	3
<b>Subtotal:</b>		<b>6</b>

**Kinesiology Concentration:**

KINT 111	Health & Wellness.....	3
KINA 115	Strength Training.....	1
KINT 321	Exercise Physiology.....	3
KINT 331	Biomechanics.....	3
KINT 241	Care & Prevention of Athletic Injuries.....	3
KINT 110	Fundamentals of Kinesiology.....	3
KINT 351	Coaching.....	3
KINT 201	Kinesiology Research.....	1
KINT 490	Senior Kinesiology Seminar.....	2

# Business Administration

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KINT 354	Certified Strength & Conditioning Specialist*.....	3
KINT 352	American College of Sports Medicine*.....	3
KINT 450	Administration of Kinesiology.....	3
KINT 452	Advanced Fitness Assessment.....	3
KINT 485	Sport Management Internship.....	3
Subtotal:		37

Total: 125

## Accounting Courses

**ACCT 211 - Accounting Principles I (3 hours)**

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

**ACCT 212 - Accounting Principles II (3 hours)**

Prerequisite: ACCT 211

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

**ACCT 315 - Intermediate Accounting I (4 hours)**

Prerequisite: ACCT 212

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. (Fall)

**ACCT 316 - Intermediate Accounting II (4 hours)**

Prerequisite: ACCT 315

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. This course covers materials and methods tested on the CPA exam. (Spring)

**ACCT 317 - Cost Accounting (3 hours)**

Prerequisite: ACCT 212

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. (Fall, odd years)

**ACCT 319 - Fund Accounting (3 hours)**

Prerequisite: ACCT 212

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



**ACCT 412 - Auditing (3 hours)**

Prerequisite: ACCT 212; MATH 241

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. (Fall, even years)

**ACCT 415 - Advanced Accounting (3 hours)**

Prerequisite: ACCT 316

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. (Spring)

**ACCT 417 - Accounting Information Systems (3 hours)**

Prerequisite: ACCT 212

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

**ACCT 418 - Federal Income Taxes (4 hours)**

Prerequisite: ACCT 212

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. (Spring, even years)

**ACCT 491 - Selected Topics (1-3 hours)**

Prerequisite: Permission of department chair

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.

**ACCT 492 - Accounting Internship (3-8 hours)**

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.

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**Business Courses****BUAD 202 - Introduction to Contemporary Business (3 hours)**

An introduction to business models and functions within the current cultural and technological environments. The course further aims to provide practical skills in entrepreneurship and competitive strategies in business planning through hands-on experience. (Fall)

### **BUAD 203 - Research in Business (1 hour)**

This course is an orientation to the resources, skills, thinking processes, critical thinking, and software used in business research. Students will be introduced to the concepts and procedures of business-specific portfolio development. The students will also be introduced to library usage, quantitative and qualitative research, and documentation. **The course will be team-taught with the library staff. This course fulfills the requirement for UNIV 201: Research in an Academic Discipline as specified in Southwestern's Quality Enhancement Plan.** (Spring)

### **BUAD 211 - Profiles of Entrepreneurship (3 hours)**

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. (Spring)

### **BUAD 250 - Project Management and Leadership (1 hour)**

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. Students in Free Enterprise (SIFE) may be used as a means for accomplishing the practical aspects of the course. Lec & Lab. (Fall)

### **BUAD 251 - Project Management (1-3 hours)**

Prerequisite: BUAD 250 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 Students in Free Enterprise (SIFE) team. May be repeated for a total of 3 credits.(Spring)

### **BUAD 295 - Health Care Management (1 hour)**

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.

### **BUAD 301 - Principles of Management (3 hours)**

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. (Summer overseas)

### **BUAD 302 - Advanced Software Applications (3 hours)**

Prerequisite: CSIS 102

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. (Spring)

**BUAD 311 - Business Law (3 hours)**

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. (Spring)

**BUAD 317 - International Business Communication (3 hours)**

Prerequisite: ENGL 121

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. (Spring)

**BUAD 321 - Business Finance (3 hours)**

Prerequisite: ACCT 211

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. (Fall, Summer overseas)

**BUAD 372 - Human Resources Management (3 hours)**

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. (Fall)

**BUAD 383 - Finance Theory and Structure of Financial Markets (3 hours)**

Prerequisite: BUAD 321

Finance theories underlie the fundamentals in understanding finance and its role in markets. From measuring investment value, risk and return on investment, exposure to foreign currencies provide important tools for finance graduates. This subject will include foreign currency transactions, value at risk and portfolio theory. (Spring, even years)

**BUAD 422 - Portfolio Management (3 hours)**

Prerequisite: BUAD 321

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. (Fall, even years)

**BUAD 423 - Organizational Behavior (3 hours)**

Prerequisite: BUAD 301

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. (Spring)

### **BUAD 433 - Investment Principles (3 hours)**

Prerequisite: BUAD 321

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. (Fall)

### **BUAD 451 - International Business (3 hours)**

Prerequisites: BUAD 301, MKTG 343

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. (Fall)

### **BUAD 452 - International Finance (3 hours)**

Prerequisites: BUAD 321; ECON 211

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. (Spring)

### **BUAD 453 - Cross-Cultural Studies (3 hours)**

Variables and effects of both verbal and nonverbal communication in international business. Practical applications are made for cultural differences, management expectations, and marketing practices. (Spring)

### **BUAD 460 - Business Ethics (3 hours)**

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

### **BUAD 466 - Production and Operations Management (3 hours)**

Prerequisite: MATH 241

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. (Fall)

### **BUAD 472 - Business Policies and Strategies (3 hours)**

Prerequisite: Open only to seniors majoring in the department. 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. Business ETS Test is taken. **This course fulfills the requirement for an upper-division course with components as specified in Southwestern's Quality Enhancement Plan.** (Spring)

**BUAD 488 - Advanced Finance (3 hours)**

Prerequisite: BUAD 321

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

**BUAD 491 - Selected Topics (1-3 hours)**

Prerequisite: Permission of department chair

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.

**BUAD 492 - Business Internship (3-8 hours)**

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.

**BUAD 493 - Money and Banking (3 hours)**

Prerequisites: ECON 211

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.

**BUAD 496 - Senior Business Seminar (1 hour)**

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. **This class fulfills the requirement for a capstone/portfolio completion course with components as specified in Southwestern's Quality Enhancement Plan.** (Fall)

## **Economics Courses**

**ECON 211 - Macroeconomics (3 hours)**

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. (Fall)

**ECON 212 - Microeconomics (3 hours)**

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. (Spring)

### Marketing Courses

#### **MKTG 237 - Video Production (3 hours)**

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. 2 Lec 3 Lab. (Fall)

#### **MKTG 241 - Public Relations (3 hours)**

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.) (Fall)

#### **MKTG 303 - E-Commerce and Web Site Design (3 hours)**

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. (Also taught as CSIS 303.) (Fall)

#### **MKTG 343 - Principles of Marketing (3 hours)**

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. (Fall, summer overseas)

#### **MKTG 350 - Consumer Behavior (3 hours)**

Prerequisite: MKTG 343

An integration of marketing theory and the behavioral sciences in order to understand choices and influences in consumer decision behavior. (Spring, odd years)

#### **MKTG 351 - Advertising (3 hours)**

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. (Spring)

#### **MKTG 402 - E-Commerce Environment (3 hours)**

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

### **MKTG 442 - Applied Public Relations and Advertising (3 hours)**

This course uses team projects to teach the tools and techniques necessary to work in the fields of public relations and advertising. Public relations assignments may include, but are not limited to, crisis management, special events, media relations, publications, and internal communications. 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. (Fall, odd years)

### **MKTG 443 - Marketing Research (3 hours)**

Prerequisite: MKTG 343

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. (Spring)

### **MKTG 492 - Marketing Internship (3-8 hours)**

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.





# Chemistry

## Faculty/Staff

Murray Cox, Chair.

Gerald Springer

Adjunct: Karl Konrad

## 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, biochemistry, analytical 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.

## Programs

- B.A. Chemistry - 39 (19 u.d.)
- B.S. Chemistry - 43 hours (23 u.d.)
- B.S. Biochemistry - 57 hours (29 u.d.)
- B.S. Physical Science - Secondary Certification - 51 hours (21 u.d.)
- Minor in Chemistry - 18 hours (6 u.d.)

### Chemistry, B.A.

CHEM 111	General Chemistry I.....	4
CHEM 112	General Chemistry II.....	4
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
<b>Total: (19 upper division)</b>		<b>39</b>

Required cognates: CHEM 201; MATH 181; PHYS 121, 122.

Recommended cognates: MATH 282, 283; CSIS 110; PHYS 221, 222.

### Chemistry, B.S.

CHEM 111	General Chemistry I.....	4
CHEM 112	General Chemistry II.....	4
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

## Chemistry

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
<b>Total: (23 upper division)</b>		<b>43</b>

Required cognates: CHEM 201; CSIS 110; MATH 181, 282, 283; PHYS 121, 122.

Recommended cognates: MATH 321; PHYS 221, 222; an intermediate foreign language.

### Chemistry Minor

CHEM 111	General Chemistry I.....	4
CHEM 112	General Chemistry II.....	4
CHEM	Electives (6 hours u.d.).....	10
<b>Total: (6 upper division)</b>		<b>18</b>

### Biochemistry, B.S.

CHEM 111	General Chemistry I.....	4
CHEM 112	General Chemistry II.....	4
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
BIOL 111	General Biology I.....	4
BIOL 112	General Biology II.....	4
BIOL 340	Cell & Molecular Biology.....	3
BIOL 344	Molecular Biology Techniques.....	2
BIOL	Electives chosen from.....	4
	- BIOL 330 Bacteriology & Virology (4)	
	- BIOL 410 Human Physiology (4)	
	- BIOL 450 Histology (4)	
<b>Total: (29 upper division)</b>		<b>57</b>

Required cognates: CHEM 201; MATH 181, 282, PHYS 121, 122

Recommended cognates: PHYS 221, 222, RLGN 419

### 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.*

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

CHEM 111	General Chemistry I.....	4
CHEM 112	General Chemistry II.....	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
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
PHYS 311	Modern Physics.....	3
PHYS	Electives (upper division).....	3
<b>Total: (21 upper division)</b>		<b>51</b>

Required cognates: MATH 201 or CHEM 201

**Courses****CHEM 105 - Survey of Chemistry (4 hours)**

Prerequisite: SAT mathematics score of at least 500 or an ACT mathematics score of at least 21, or MATH 011 with a grade of A– or higher, or MATH 012 with a grade of C– or higher.

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. 3 Lec 3 lab. Lab fee. (Fall)

**CHEM 111 - General Chemistry I (4 hours)**

Prerequisite: 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.

This course develops basic topics such as atomic structure, periodicity, chemical equations, chemical bonding, solutions, nomenclature, and states of matter. 3 Lec 3 Lab. Lab Fee. (Fall)

**CHEM 112 - General Chemistry II (4 hours)**

Prerequisite: CHEM 111 with a grade of C– or higher.

A continuation of CHEM 111. Included are discussions of kinetics, acids and bases, equilibrium, electrochemistry, and introduction to nuclear and organic chemistry. 3 Lec 3 Lab. Lab fee. (Spring)

**CHEM 201 - Research Methods in the Physical Sciences (1 hour)**

Prerequisite: ENGL 121 and PHYS 121, 122 or CHEM 111, 112.

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. **This course fulfills the requirement as specified in Southwestern's Quality Enhancement Plan.** (Spring)

**CHEM 221 - Modern Analytical Chemistry (4 hours)**

Prerequisite: CHEM 112 with grade of C– or higher.

A course in which quantitative and instrumental techniques of chemical analysis are combined. Emphasis will be on developing analytical skills. 3 Lec 3 Lab. Lab fee. (Fall, even years)

**CHEM 231 - Organic Chemistry I (4 hours)**

Prerequisite: CHEM 112 with a grade of C– or higher.

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. 3 Lec 3 Lab. Lab fee. (Fall)

**CHEM 232 - Organic Chemistry II (4 hours)**

Prerequisite: CHEM 231 with a grade of C– or higher.

A continuation of the study of basic organic chemistry. Includes carboxylic acids, aldehydes, ketones, amines, heterocyclics, unsaturated carbonyl compounds, carbohydrates, phenols, glycols and epoxides. 3 Lec 3 Lab. Lab fee. (Spring)

**CHEM 291 - Selected Topics (1 hour)**

Prerequisite: Permission of the department chair.

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.

**CHEM 310 - Environmental and Geological Chemistry (4 hours)**

Prerequisite: CHEM 112 or equivalent with a grade of C– or higher, MATH 181 or permission of instructor.

Chemistry of how geological and anthropogenic activities impact Earth's hydrosphere, continents, and atmosphere. 3 Lec 3 Lab. Lab fee. (Offered periodically)

**CHEM 341 - Physical Chemistry I (4 hours)**

Prerequisite: CHEM 112 or equivalent with a grade of C– or higher, MATH 181.

Rigorous mathematical treatment of gas laws, physical states of matter, solutions, thermodynamics, equilibrium, chemical potential, electrochemistry, and an introduction to quantum mechanics. 3 Lec 3 Lab. Lab fee. (Fall, odd years)

**CHEM 342 - Physical Chemistry II (4 hours)**

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

Further development of atomic and molecular quantum mechanics, spectroscopy, kinetics and reaction mechanisms, and statistical thermodynamics. 3 Lec 3 Lab. Lab fee. (Spring, even years)

**CHEM 421 - Modern Analytical Instrumentation (4 hours)**

Prerequisite: CHEM 221 with a grade of C– or higher or CHEM 231 with a grade of C– or higher.

A course in modern analytical instrumentation, including electroanalytical, spectroscopic, separations, and kinetic methods. Application of spreadsheet and computer simulation software. Laboratory emphasis. 2 Lec 6 Lab. Lab fee. (Offered periodically)

**CHEM 431 - Biochemistry I (3 hours)**

Prerequisite: CHEM 232 with a grade of C– or higher. Corequisite: CHEM 432 (required for chemistry and biochemistry majors).

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. **This course fulfills the requirement for an upper-division course with components as specified in Southwestern's Quality Enhancement Plan.** 3 Lec. (Fall)

**CHEM 432 - Biochemistry I Lab (1 hour)**

Prerequisite or corequisite: CHEM 431.

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. 3 Lab. Lab fee. (Fall)

**CHEM 433 - Biochemistry II (3 hours)**

Prerequisite: CHEM 431 with a grade of C– or higher. Corequisite: CHEM 434 (required for chemistry and biochemistry majors).

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. 3 Lec. (Spring)

**CHEM 434 - Biochemistry II Lab (1 hour)**

Prerequisite or corequisite: CHEM 433.

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. 3 Lab. Lab fee. (Spring)

**CHEM 462 - Inorganic Chemistry (3 hours)**

Prerequisite: CHEM 341 or CHEM 112 with permission of instructor.

A course including a study of the elements and their periodic relationships, acid-base theories, current bonding theories, coordination compounds, and other selected topics. 3 Lec. (Offered periodically)

**CHEM 475 - Research Methods in Chemistry (4 hours)**

Prerequisite: 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.

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. **This course fulfills the requirement for a capstone/portfolio completion course with components as specified in Southwestern's Quality Enhancement Plan.** 2 Lec 6 Lab. Lab fee. (Offered periodically)

### **CHEM 491 - Selected Topics (1-3 hours)**

Prerequisite: Permission of the department chair.

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.

# Clinical Laboratory Sciences

## Faculty/Staff

Suzanne Phillips

## Aims of the Program

The Clinical Laboratory Sciences program prepares students to be certified clinical laboratory technologists in hospitals and other clinical laboratory settings.

## Program

Southwestern Adventist University offers a Bachelor of Science degree (131-138 semester hours) in Clinical Laboratory Sciences. 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 Clinical Laboratory Sciences.

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 Clinical Laboratory Sciences 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 32 of the last 38 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.

## Clinical Laboratory Sciences, B.S.

BIOL 111, 112	General Biology	8
BIOL 220	Microbiology.....	4
BIOL 280	Principles of Research and Statistics.....	2
BIOL 320	Genetics.....	4
MATH 121	Precalculus.....	3
CHEM 111, 112	General Chemistry.....	8
CHEM 231, 232	Organic Chemistry.....	8
CSIS	Computer Elective.....	3
<b>Total:</b>		<b>40</b>

Clinical training (see page 112)..... 48-59

**Recommended Cognates: PHYS 121, 122; CHEM 221, 431, 432.**

# Clinical Laboratory Sciences

**Senior Year** - Clinical training at an affiliated hospital institution. Courses as listed by the Andrews University Program:

CLSC 230	Fundamentals of Clinical Microbiology.....	3
CLSC 250	Fundamentals of Clinical Chemistry.....	3
CLSC 260	Fundamentals of Human Blood Biology.....	3
CLSC 320	Principles of Immunology.....	3
CLSC 400	Specimen Procurement & Processing & Lab.....	2
CLSC 401	Seminar I.....	0
CLSC 402	Seminar II.....	0
CLSC 411	Hematology & Lab.....	3
CLSC 412	Hemostasis.....	1
CLSC 413	Clinical Hematology & Hemostasis Practicum.....	4
CLSC 421	Clinical Immunology & Lab.....	2
CLSC 423	Clinical Immunology Practicum.....	1
CLSC 431	Clinical Microbiology & Lab.....	4
CLSC 432	Special Microbiology & Lab.....	2
CLSC 433	Clinical Microbiology Practicum.....	5
CLSC 441	Immunohematology & Lab.....	3
CLSC 442	Transfusion Medicine & Lab.....	1
CLSC 443	Clinical Immunohematology Practicum.....	4
CLSC 451	Clinical Chemistry & Lab.....	4
CLSC 452	Clinical Chemistry & Body Fluids & Lab.....	2
CLSC 453	Clinical Chemistry Practicum.....	5
CLSC 460	Clinical Laboratory Systems.....	2
CLSC 463	Clinical Microscopy Practicum.....	1
CLSC 495	Independent Study Project.....	1
		<b>Total: 59</b>
(Tarleton State University clinical year experience.....		48)
<b>TOTAL hours for graduation.....</b>		<b>131-138</b>



# Communication

## Faculty/Staff

Robert R. Mendenhall, Chair

Mike Agee, Glen Robinson, Randy Yates

Adjunct: Stew Harty, Milt Siems, Trent Truman

## Department 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, creating media content, and managing all the elements of communication technology. In addition, knowledge comes from learning about new forms of convergence and interaction in the areas of radio, television, film, journalism, advertising, public relations, graphic communication, and the Internet.

## Department Aims

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 managerial responsibilities later 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.

## Facilities and Internships

Communication majors at Southwestern Adventist University choose one of the department's four emphasis areas of study: Advertising & Public Relations (ADPR), Graphic Communication (GCOM), Journalism (JOUR), or Radio-TV-Film (RTVF). The department also offers minors in both 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 31

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.

## Departmental 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.

# Communication

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## 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 emphasis 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 (not C–) or above.

Writing is a major component of upper division communication courses. The Department requires all students to have passed ENGL 220 Research and Professional Writing or its equivalent before enrolling in any upper division course.

## Programs

### B.A. in Communication

- Emphasis in Advertising and PR -- 38 hours (19 u.d.)
- Emphasis in Graphic Communication -- 38 hours (19 u.d.)
- Emphasis in Journalism -- 38 hours (19 u.d.)
- Emphasis in Radio-TV-Film -- 38 hours (19 u.d.)

### B.S. in Communication

- Emphasis in Advertising and PR -- 47 hours (25 u.d.)
- Emphasis in Journalism -- 47 hours (25 u.d.)
- Emphasis in Radio-TV-Film -- 50 hours (28 u.d.)

### Communication, B.A. (Advertising and PR Emphasis)

COMM 110	Communication Media.....	3
COMM 115	Discussion Techniques.....	3
COMM 137	Digital Media Techniques.....	3
COMM 201	Communication Research.....	1
COMM 222	Media Writing.....	3
COMM 224	Digital Photography and Editing.....	3
COMM 241	Public Relations.....	3
COMM 335	Persuasion.....	3
COMM 343	Visual Communication.....	3
COMM 351	Advertising.....	3
COMM 431	Media Law and Ethics.....	3
COMM 442	Applied Advertising and PR.....	3
COMM 451	Communication Theory.....	3
COMM 481	Communication Senior Seminar.....	1
<b>Total:</b>		<b>38</b>

**Communication, B.A. (Graphic Communication Emphasis)**

COMM 110	Communication Media.....	3
COMM 137	Digital Media Techniques.....	3
COMM 201	Communication Research.....	1
COMM 217	Motion Graphics.....	3
COMM 222	Media Writing.....	3
COMM 224	Digital Photography and Editing.....	3
COMM 247	Publication Design.....	3
COMM 248	Digital Graphic Design.....	3
COMM 343	Visual Communication.....	3
COMM 351	Advertising.....	3
COMM 431	Media Law and Ethics.....	3
COMM 451	Communication Theory.....	3
COMM 481	Communication Senior Seminar.....	1

**Total: 35****Required Cognate**

ARTS 111	Drawing.....	3
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**Communication, B.A. (Journalism Emphasis)**

COMM 110	Communication Media.....	3
COMM 112	Announcing.....	3
COMM 137	Digital Media Techniques.....	3
COMM 201	Communication Research.....	1
COMM 222	Media Writing.....	3
COMM 224	Digital Photography and Editing.....	3
COMM 230	Broadcast Journalism.....	3
COMM 322	Reporting.....	3
COMM 343	Visual Communication.....	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 481	Communication Senior Seminar.....	1

**Total: 38**

# Communication

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<b>Communication, B.A. (Radio-TV-Film Emphasis)</b>		
COMM 110	Communication Media.....	3
COMM 112	Announcing.....	3
COMM 137	Digital Media Techniques.....	3
COMM 201	Communication Research.....	1
COMM 222	Media Writing.....	3
COMM 230	Broadcast Journalism.....	3
COMM 237	Video Production I.....	3
COMM 313	Broadcasting in America.....	3
COMM 343	Visual Communication.....	3
COMM 351	Advertising.....	3
COMM 355	Understanding Film.....	3
COMM 431	Media Law and Ethics.....	3
COMM 451	Communication Theory.....	3
COMM 481	Communication Senior Seminar.....	1
<b>Total:</b>		<b>38</b>

<b>Communication, B.S. (Advertising and PR Emphasis)</b>		
COMM 110	Communication Media.....	3
COMM 115	Discussion Techniques.....	3
COMM 137	Digital Media Techniques.....	3
COMM 201	Communication Research.....	1
COMM 222	Media Writing.....	3
COMM 224	Digital Photography and Editing.....	3
COMM 233	Interpersonal Communication.....	3
COMM 241	Public Relations.....	3
COMM 322	Reporting.....	3
COMM 335	Persuasion.....	3
COMM 343	Visual Communication.....	3
COMM 351	Advertising.....	3
COMM 381	Development.....	3
COMM 431	Media Law and Ethics.....	3
COMM 442	Applied Advertising and PR.....	3
COMM 451	Communication Theory.....	3
COMM 481	Communication Senior Seminar.....	1
<b>Total:</b>		<b>47</b>

**Communication, B.S. (Journalism Emphasis)**

COMM 110	Communication Media.....	3
COMM 112	Announcing.....	3
COMM 137	Digital Media Techniques.....	3
COMM 201	Communication Research.....	1
COMM 222	Media Writing.....	3
COMM 224	Digital Photography and Editing.....	3
COMM 230	Broadcast Journalism.....	3
COMM 241	Public Relations.....	3
COMM 247	Publication Design.....	3
COMM 322	Reporting.....	3
COMM 324	Photojournalism.....	3
COMM 343	Visual Communication.....	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 481	Communication Senior Seminar.....	1
<b>Total:</b>		<b>47</b>

**Communication, B.S. (Radio-TV-Film Emphasis)**

COMM 110	Communication Media.....	3
COMM 112	Announcing.....	3
COMM 137	Digital Media Techniques.....	3
COMM 201	Communication Research.....	1
COMM 217	Motion Graphics.....	3
COMM 222	Media Writing.....	3
COMM 230	Broadcast Journalism.....	3
COMM 237	Video Production I.....	3
COMM 313	Broadcasting in America.....	3
COMM 332	Electronic Media Management.....	3
COMM 337	Video Production II.....	3
COMM 343	Visual Communication.....	3
COMM 351	Advertising.....	3
COMM 355	Understanding Film.....	3
COMM 431	Media Law and Ethics.....	3
COMM 437	Digital Film Production.....	3
COMM 451	Communication Theory.....	3
COMM 481	Communication Senior Seminar.....	1
<b>Total:</b>		<b>50</b>

**Minor in Advertising and PR**

COMM 110	Communication Media.....	3
COMM 137	Digital Media Techniques.....	3
COMM 222	Media Writing.....	3
COMM 241	Public Relations.....	3
COMM 351	Advertising.....	3
COMM 442	Applied Advertising and PR.....	3
<b>Total:</b>		<b>18</b>

## Communication

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### Minor in Communication

COMM 110	Communication Media.....	3
COMM 137	Digital Media Techniques.....	3
COMM 222	Media Writing.....	3
COMM 343	Visual Communication.....	3
COMM 431	Media Law and Ethics.....	3
COMM 451	Communication Theory.....	3
<b>Total:</b>		<b>18</b>

### Minor in Graphic Communication

COMM 137	Digital Media Techniques.....	3
COMM 224	Digital Photography and Editing.....	3
COMM 247	Publication Design.....	3
COMM 248	Digital Graphic Design.....	3
COMM 343	Visual Communication.....	3
COMM 351	Advertising.....	3
<b>Total:</b>		<b>18</b>

### Minor in Journalism

COMM 110	Communication Media.....	3
COMM 137	Digital Media Techniques.....	3
COMM 222	Media Writing.....	3
COMM 230	Broadcast Journalims.....	3
COMM 322	Reporting.....	3
COMM 422	Writing for Publication.....	3
<b>Total:</b>		<b>18</b>

### Minor in Radio-TV-Film

COMM 110	Communication Media.....	3
COMM 112	Announcing.....	3
COMM 137	Digital Media Techniques.....	3
COMM 237	Video Production II.....	3
COMM 313	Broadcasting America.....	3
COMM 332	Electronic Media Management.....	3
<b>Total:</b>		<b>18</b>

### Minor in Speech

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
<b>Total:</b>		<b>18</b>

### 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., Journalism Emphasis - Secondary Teaching Area**

The student must meet the requirements for a B.A. or B.S. degree in Communication - Journalism Emphasis.

**Courses****COMM 110 - Communication Media (3 hours)**

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. (Fall)

**COMM 111 - Speech (3 hours)**

Theoretical and practical instruction in the principles of effective oral communication, with a concern for its importance in a democratic society. Emphasis is placed on content, organization, speaker attitudes, critical listening, audience analysis, and delivery. (Fall, Spring)

**COMM 112 - Announcing (3 hours)**

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. (Spring)

**COMM 113 - Oral Interpretation (3 hours)**

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. (Spring, odd years)

**COMM 115 - Discussion Techniques (3 hours)**

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. (Spring, even years)

**COMM 137 - Digital Media Techniques (3 hours)**

This course is an introduction to the digital technologies and techniques applied to create contemporary media content. Hands-on video and audio projects will expose students to the basic methods and procedures of creating content for digital media, including broadcast, the web, DVDs, presentations, and mobile devices. Supplies fee. (Fall)

**COMM 170 - Media Production Practicum (1 hour)**

Prerequisite: Permission of instructor and department chair.

Supervised work in an off-campus media production environment. A minimum of 50 clock hours of work experience is required. Pass/fail course. May be repeated for a total of 3 credits. (Fall, Spring)

## Communication

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### **COMM 201 - Communication Research (1 hour)**

Prerequisite: UNIV 110, ENGL 121

An introduction to the research skills used in the field of communication. Students will use primary and secondary sources as well as communication journals, indexes, and databases as they produce a research paper and engage in other activities relative to critical thinking within the discipline of communication. Students will also be exposed to current communication scholarship and begin the process of senior portfolio development. **This course fulfills the requirement for UNIV 201: Research in an Academic Discipline as specified in Southwestern's Quality Enhancement Plan.** (Spring)

### **COMM 217 - Motion Graphics (3 hours)**

An introduction to graphic design principles and requirements for still and animated images. The student will learn the fundamentals of motion graphics through basic 2-D and 3-D animation techniques. Upon completion of this course students will have a basic working knowledge of key software packages commonly used in communication industries. Students will also have designed and completed broadcast- and web-quality projects suitable for their portfolios. Supplies fee. (Fall, odd years)

### **COMM 222 - Media Writing (3 hours)**

Prerequisite: ENGL 121.

An introduction to news, public relations, advertising, and other writing styles for communicating effectively. This course examines the writing process, including appropriate use of grammar, spelling, and punctuation, and shows students how to accomplish a variety of writing tasks in a media context. Extensive practice in writing. (Spring)

### **COMM 224 - Digital Photography and Editing (3 hours)**

Prerequisite: Permission of instructor.

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. Some time is built into the course for learning Photoshop editing techniques, but the student will also spend time outside of class shooting and editing photos. Student must furnish digital camera (camera that shoots RAW preferred). Supplies fee. (Fall)

### **COMM 230 - Broadcast Journalism (3 hours)**

Prerequisite: ENGL 121.

This broadcast news course emphasizes the importance of clear, concise, and engaging writing, as well as accurate, thorough, and fair reporting. Other elements include writing to audio, producing newscasts and public affairs programs, writing to visuals, news for stations and other media including the Web, and ethics and law. (Fall, even years)

### **COMM 233 - Interpersonal Communication (3 hours)**

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. (Spring, even years)



**COMM 237 - Video Production I (3 hours)**

This course introduces students to basic shooting and editing techniques used by video professionals. Hands-on experience will provide learning opportunities in operating a camera, as well as using both lighting and audio equipment. Students will also learn key editing techniques to create professional-quality story segments used in news, magazine shows, and documentaries. Supplies fee. (Spring)

**COMM 241 - Public Relations (3 hours)**

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 MKTG 241.) (Fall)

**COMM 247 - Publication Design (3 hours)**

This course emphasizes the graphic preparation of print materials, including newsletters, advertising, brochures, magazines, and newspapers. Elements include typography, printing, integrating graphics with text, graphic manipulation, layout, and presentation. A major segment of the course includes an introduction to desktop publishing and illustration software. Supplies fee. (Fall)

**COMM 248 - Digital Graphic Design (3 hours)**

This course emphasizes the graphic considerations involved in web design, mobile media, and other digital media. Elements include the basics of HTML and CSS, as well as layout and design, including structuring the page with proper alignment, consistency, and site navigation. A major section of the course includes an introduction to website design and presentation software. Supplies fee. (Spring)

**COMM 291 - Selected Topics (1 hour)**

Prerequisite: Permission of department chair.

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.

**COMM 313 - Broadcasting in America (3 hours)**

An advanced study of broadcasting in the United States, this course includes elements on the origins and growth of broadcasting and cable; the physical bases of radio, television, and cable; programming, ratings, and effects; regulatory and constitutional matters; and current issues, including an international perspective. (Fall, odd years)

**COMM 322 - Reporting (3 hours)**

Prerequisite: COMM 222 or permission of instructor.

A continuation of COMM 222, exploring the principles and practices of news reporting. Emphasis is placed on writing for today's journalism, including web reporting and preparing content for multiple platforms. Extensive writing. (Fall, even years)

### **COMM 324 - Photojournalism (3 hours)**

Prerequisite: COMM 224 or permission of instructor.

An advanced study of the visual image as it is used to document social conditions. Emphasis is given to news photographs, editing, cropping, legal and ethical considerations, and the ability to tell stories using multiple images combined with audio. Student must furnish digital camera. Supplies fee. (Spring, odd years)

### **COMM 332 - Electronic Media Management (3 hours)**

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. (Fall, even years)

### **COMM 335 - Persuasion (3 hours)**

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 work in teams to replicate published persuasive research and will present their findings in a public session. (Spring, odd years)

### **COMM 337 - Video Production II (3 hours)**

Prerequisite: COMM 237 or permission of instructor.

This course will expose students to advanced shooting and editing techniques, including multi-camera production. Students will be required to shoot and edit story segments for a live, multi-camera show produced several times during the semester. Supplies fee. (Spring, odd years)

### **COMM 343 - Visual Communication (3 hours)**

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. Supplies fee. (Fall)

### **COMM 351 - Advertising (3 hours)**

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.) (Spring)

### **COMM 355 - Understanding Film (3 hours)**

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. 2 Lec 3 Lab. (Spring, even years)

### **COMM 381 - Development (3 hours)**

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. (Fall, odd years)

### **COMM 383 - Editorial Techniques (3 hours)**

Prerequisite: COMM 222 Prerequisite or corequisite: COMM 322.

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. (Fall, even years)

### **COMM 422 - Writing for Publication (3 hours)**

Prerequisite: COMM 222 or permission of instructor.

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. (Fall, odd years)

### **COMM 431 - Media Law and Ethics (3 hours)**

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. **This course fulfills the requirement for an upper division course with components as specified in Southwestern's Quality Enhancement Plan.** (Fall, even years)

### **COMM 437 - Digital Film Production (3 hours)**

Prerequisite: COMM 237 or permission of instructor.

In this course students will produce short films using advanced digital video methods, including 24-frame, single-camera filming techniques. Emphasis will be placed on producing, directing, and editing dramatic segments. Students will also have the opportunity to work with advanced post-production techniques, including color correction and sound sweetening of their projects. Supplies fee. (Spring, even years)

### **COMM 442 - Applied Advertising and Public Relations (3 hours)**

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. (Fall, odd years)

## Communication

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### **COMM 451 - Communication Theory (3 hours)**

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 reflections throughout the course as well as discussion integrating and relating the communication theories covered. **This course fulfills the requirement for an upper-division course with components as specified in Southwestern's Quality Enhancement Plan.** (Spring, odd years)

### **COMM 471 - Radio Internship (1-3 hours)**

### **COMM 472 - Television Internship (1-3 hours)**

### **COMM 473 - Journalism Internship (1-3 hours)**

### **COMM 474 - Public Relations Internship (1-3 hours)**

### **COMM 475 - Advertising Internship (1-3 hours)**

### **COMM 476 - Graphic Communication Internship (1-3 hours)**

Prerequisite: Permission of department chair and instructor.

These courses offer the advanced student university credit for on-the-job, off-campus work in radio, television, journalism, public relations, advertising, or graphic communication under the joint direction of the departmental staff and a supervisor at the medium or business selected.

### **COMM 481 - Communication Senior Seminar (1 hour)**

In this course, communication majors will finalize the contents of their portfolios before graduation. Students will also complete their senior thesis in this course. This course is required of all graduating communication majors. Students will take the class in their senior year. **This course fulfills the requirement for a capstone/portfolio completion course with components as specified in Southwestern's Quality Enhancement Plan.** (Spring)

### **COMM 491 - Selected Topics (1 hour)**

Prerequisite: Permission of department chair.

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. May be repeated for a total of 2 credits.

# Computer Science

## Faculty/Staff

Daryl D. Thomas, Chair; Miguel Espinosa, Judith F. Miles

Adjunct: Italo Osorio

## Aims of the Program

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 two bachelor of science degree programs. The first, 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 second program, offered in collaboration with the Department of Business Administration, is a composite major leading to a Bachelor of Science in Business Administration and Computer Information Systems. This program is intended for students who wish to apply the tools of computer science in a management context. The Department also offers a minor in Computer Science.

In addition to the course requirements set forth below, each student majoring in Computer Science or in Computer Information Systems must successfully develop and release a useful program under an open-source model.

## Programs

- B.S. Computer Science
- B.S. Computer Information Systems and Business (Composite Major)
- Computer Science minor

## Computer Science, B.S.

CSIS 110, 111	Principles of Computer Programming I, II.....	6
CSIS 125	Discrete Structures I.....	3
CSIS 201	Information Literacy for CS Majors.....	1
CSIS 211	Data Structures & Algorithms.....	3
CSIS 215	Object-Oriented Programming in C++.....	3
CSIS 225	Discrete Structures II.....	3
CSIS 245	Introduction to LAN Technology.....	4
CSIS 275	Introduction to Robotic Systems.....	3
CSIS 301	Issues and Practices in Information Security.....	3
CSIS 315	Application Development for Event-Driven GUI Applications.....	3
CSIS 360	Operating Systems.....	3
CSIS 405	Formal Languages and Automata.....	3
CSIS 445	Internetwork Architectures.....	3
CSIS 450	Principles of Database Design.....	3
CSIS 490	Software Engineering.....	3
PHYS 305	Digital Electronics.....	4
	C.S. Elective (upper division).....	3
<b>Total:</b>		<b>54</b>

# Computer Science

**Required Cognates:**

PHYS 121	General Physics I.....	4
PHYS 122	General Physics II.....	4
MATH 121	Precalculus.....	3
MATH 181	Calculus I.....	4
MATH 241	Intro to Probability & Statistics.....	3
COMM 115	Discussion Techniques.....	3
<b>Total:</b>		<b>21</b>
<b>General Education and Elective Courses:</b>		<b>53</b>

**Grand Total: 128**

The Bachelor of Science in Computer Science is a composite major. It therefore does not require a minor.

We strongly suggest that students seeking a Bachelor of Science in Computer Science or the Composite Major in Computer Information Systems and Business plan to take their major courses in the following sequence:

Freshman	- Fall Semester	CSIS 110
	- Spring Semester	CSIS 111, CSIS 125
Sophomore	- Fall Semester	CSIS 211, CSIS 225, CSIS 275
	- Spring Semester	CSIS 201, CSIS 215, CSIS 245
Junior	- Fall Semester	CSIS 301, CSIS 360
	- Spring Semester	CSIS 450, CSIS upper division elective
Senior	- Fall Semester	CSIS 315, CSIS 445
	- Spring Semester	CSIS 405, CSIS 490

All students pursuing majors or minors in this department should plan on enrolling in MATH 121 in the fall semester of their Freshman year.

## Composite Major in Business and Computer Information Systems, B.S.

Students who wish to pursue this program must make formal application both to the Department of Business Administration and the Department of Computer Science.

**Business Courses:**

ACCT 211	Accounting Principles I.....	3
BUAD 203	Research in Business.....	1
BUAD 301	Principles of Management.....	3
BUAD 302	Advanced Software Applications.....	3
BUAD 311	Business Law I.....	3
BUAD 317	International Business Communication.....	3
BUAD 321	Business Finance.....	3
BUAD 472	Business Policies and Strategies (Capstone).....	3
BUAD 496	Senior Business Seminar.....	1
MKTG 232	Principles of Marketing.....	3
	Electives*.....	9
<b>Total:</b>		<b>35</b>

## Computer Information Systems Courses:

CSIS 110, 111	Principles of Computer in Programming I, II.....	6
CSIS 125	Discrete Structures I.....	3
CSIS 201	Information Literacy for CS Majors.....	1
CSIS 211	Data Structures & Algorithms.....	3
CSIS 215	Object-Oriented Programming C++.....	3
CSIS 225	Discrete Structures II.....	3
CSIS 245	Introduction to LAN Technology.....	4
CSIS 303	E-Commerce and Web Site Design.....	3
CSIS 315	Application Development for Event-Driven GUI Applications.....	3
CSIS 360	Operating Systems.....	3
CSIS 445	Internetwork Architectures.....	3
CSIS 450	Principles of Database Design.....	3
CSIS 490	Software Engineering.....	3
<b>Total:</b>		<b>41</b>

## Required Cognates:

MATH 241*	Intro to Probability and Statistics.....	3
COMM115	Discussion Techniques.....	3
<b>Total:</b>		<b>6</b>

\*MATH 110 is a prerequisite for this class.

## Computer Science Minor

CSIS 110, 111	Principles of Computer Programming I, II.....	6
CSIS 125	Discrete Structures I.....	3
CSIS 211	Data Structures & Algorithms.....	3
CSIS 215	Object-Oriented Programming in C++.....	3
CSIS 225	Discrete Structures II.....	3
CSIS 245	Introduction to LAN Technology.....	4
CSIS 315	Application Development for Event-Driven GUI Applications.....	3
CSIS 445	Internetwork Architectures.....	3
<b>Total:</b>		<b>28</b>

## Courses

### CSIS 100 - Essential Computer Skills (1 hour)

This course covers basic computer skills and knowledge needed to use the Windows environment, Internet search engines, e-mail, and word processing software to create, edit, and print documents. (Fall, Spring)

### CSIS 102 - Microcomputer Literacy and Applications (3 hours)

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. (Fall, Spring)

### **CSIS 104 - Spreadsheet and Database Applications (1 hour)**

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 database and spreadsheets can be used to increase productivity. (Fall, Spring)

### **CSIS 110 - Principles of Computer Programming I (3 hours)**

Introduction to problem solving using computers. Topics include top-down design, algorithm development, information representation, and programming using the Java language. Assumes a basic knowledge of PC operation. (Fall)

### **CSIS 111 - Principles of Computer Programming II (3 hours)**

Prerequisite: CSIS 110

A continuation of CSIS 110 with emphasis on elementary data structures and advanced techniques. Students will be introduced to C++. (Spring)

### **CSIS 125 - Discrete Structures I (3 hours)**

Corequisite: MATH 110

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. (Spring)

### **CSIS 201 - Information Literacy for CS Majors (1 hour)**

Prerequisite: ENGL 121

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. **This course fulfills the requirement for UNIV 201: Research in an Academic Discipline as specified in Southwestern's Quality Enhancement Plan.** (Spring)

### **CSIS 211 - Data Structures and Algorithms (3 hours)**

Prerequisite: CSIS 111, CSIS 125

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. (Fall)

### **CSIS 215 - Object-Oriented Programming in C++ (3 hours)**

Prerequisite: CSIS 111 or Instructor's approval

A development of a 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. (Spring)

### **CSIS 225 - Discrete Structures II (3 hours)**

Prerequisites: CSIS 125 A continuation of the study of discrete structures begun in CSIS 125. Topics include recurrence relations, graphs and trees, matrices, discrete probability, computational complexity, and elementary computability. (Fall)



### **CSIS 245 - Introduction to Local Area Network Technology (4 hours)**

Prerequisite: CSIS 111, CSIS 225

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. (Spring)

### **CSIS 275 - Introduction to Robotic Systems (3 hours)**

Prerequisites: CSIS 111

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. (Fall)

### **CSIS 291 - Selected Topics (1-3 hours)**

Prerequisite: Permission of Department Chair

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.

### **CSIS 301 - Issues and Practices in Information Security (3 hours)**

Prerequisite: CSIS 110 or permission of Instructor.

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. **This course fulfills the requirement for an upper-division course with components as specified in Southwestern's Quality Enhancement Plan.** (Fall)

### **CSIS 303 - E-Commerce & Web Site Design (3 hours)**

Prerequisite: CSIS 110.

An examination of the ground rules for competitive survival in the new market space of electronic commerce, including the electronic channels of 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. (Also taught as MKTG 303.) (Fall)

### **CSIS 310 - Assembler Programming and Machine Organization (3 hours)**

Prerequisites: CSIS 225

An introduction to assembler language programming and computer organization and architecture. (Fall)

### **CSIS 315 - Application Development for Event-Driven GUI Applications (3 hours)**

Prerequisites: CSIS 215

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. (Fall)

## Computer Science

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### **CSIS 360 - Operating Systems (3 hours)**

Prerequisites: CSIS 310

A study of operating system organization, job control, I/O, and resource management. Emphasis will be placed on features of the Linux O/S. (Fall)

### **CSIS 370 - Programming Languages (3 hours)**

Prerequisite: CSIS 211

Comparative study of programming languages with emphasis on formal language specification and analysis, run-time behavior, and implementation. (Spring)

### **CSIS 405 - Formal Languages and Automata (3 hours)**

Prerequisite: CSIS 225.

An introduction to formal language theory, with emphasis on regular and context-free grammars. Topics include: language properties, the Chomsky Hierarchy, Finite State Machines, uncomputability, and computational complexity. (Spring)

### **CSIS 445 - Internetwork Architectures (3 hours)**

Prerequisite: CSIS 245

An in-depth study of internetwork architectures. Topics include: protocols, switching, WAN routing, interconnectivity, virtual circuits, Client/Server based distributed applications, and distributed processing. (Fall)

### **CSIS 450 - Principles of Database Design (3 hours)**

Prerequisite: CSIS 211

Course covers design and implementation of databases with emphasis on structures and schemas, information retrieval, SQL, security, and integrity. (Spring)

### **CSIS 490 - Software Engineering (3 hours)**

Prerequisite: CSIS 315

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. **This course fulfills the requirement for an upper-division course with components as specified in Southwestern's Quality Enhancement Plan.** (Spring)

### **CSIS 491 - Selected Topics (1-3 hours)**

Prerequisite: Approval by Department Chair

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.

### **CSIS 492 - Computer Science Internship (1-3 hours)**

Prerequisite: Approval by Department Chair

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.

**CSIS 495 - Special Topics Seminar (1-3 hours)**

Prerequisite: Approval by Department Chair

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.



## Faculty/Staff

Marcel Sargeant, Chair

Michael England, Program Director and Certification Officer; Randy Gilliam, Cheryl The

Adjunct: Sheralee Thomas, Carol Campbell

## Program Mission

The Education Department of Southwestern Adventist University directly addresses the mission to which the University is committed by preparing individuals for effective service in this world. 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 the 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.

## Program Objectives for Teacher Education

Southwestern Adventist University's goal is to provide each student with outcome driven educational competencies. Upon completion of this program, the student will demonstrate:

1. Subject matter proficiency
2. Instructional planning using broad based media
3. A variety of presentation skills to meet the needs of a diverse population
4. Assessment and screening procedures to ensure competency
5. Supervision and management skills
6. Record keeping as a process of accountability in regards to being a reflective practitioner
7. Christian professional and interpersonal responsibilities for service in their local church

## The Teacher Education Program

The Teacher Education Program at Southwestern Adventist University provides teacher training in elementary education, including the intermediate school, and at the secondary level. Through the School of Graduate Studies one can obtain a masters degree in Education.

The Education program is designed to prepare students for certification with the State of Texas, and thus be qualified to teach in either the public or private sector. This preparation is accomplished through a combination of campus and field-based delivery systems.

Degrees are awarded by Southwestern Adventist University, while certification is awarded by the State of Texas. Therefore, a student may seek certification upon completion of any degree, the completion of a state-approved teacher certification program, and the receipt of a satisfactory score on the TExES examinations. To be recommended for certification by Southwestern Adventist University, a minimum of 12 successful semester hours in residence is required.

The State Board of Educator Certification (SBEC) establishes the teacher certification standards. Any change in these standards must be reflected in Southwestern Adventist University's certification requirements; therefore, any modification in the state law affecting our certification requirements takes precedence over statements in the *Bulletin*.

## Education

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Seventh-day Adventist teacher certification may be acquired simultaneously by meeting the requirements as outlined in the North American Division Office of Education, "Certification Requirements, K-12", as revised in 2007.

### Admission to the Teacher Education Program

Admission to the University and admission to the Teacher Education Program are two separate entities. Students pursuing teacher certification or Teacher's Professional Development courses will be required to take and pass the Texas Higher Education Assessment (THEA) exam. Registration bulletins for taking the THEA are available in the Teacher Education Department. The THEA is offered six times each year. Persons who fail the test may retake it after a four month interval for as many times as needed to pass.

Professional education course work is reserved for students who have met admissions requirements, made application and have been approved by the Teacher Education Committee. The requirements for admission to teacher education at Southwestern Adventist University are as follows:

1. 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 earned a score of 500 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.
2. Have completed a minimum of 60 semester hours, or be enrolled in the semester that will complete 60 hours.
3. Have a minimum cumulative grade point average (GPA) of 2.75.
4. Have completed with a "C" or higher College Algebra, Speech, Freshman Composition and Research and Professional Writing or equivalent courses.
5. Secondary Education certification candidates must have a minimum cumulative GPA of 2.5 in their major courses.
6. Meet all other requirements implemented by the Education Department faculty.
7. Before acceptance all students must submit to, pay for, and pass a criminal background check.

The candidate is responsible for initiating the application, which is available in the Office of Teacher Certification. All applications will be accompanied by:

1. A statement of purpose - a one page, typed essay describing reasons for desiring a profession in the teaching field.
2. Two letters of recommendation from individuals other than relatives. Preferably, these recommendations will come from Southwestern Adventist University faculty members not in the Education Department, or other work experience supervisors.
3. A personal background check with satisfactory results.

### Degree Plan

After the student has been admitted to the Teacher Education Program, they should develop a degree plan with their major advisor and the Department of Education. The plan will show the declared major or teaching fields, the work completed and the remaining requirements for the degree. Copies of the degree plan will be filed with the Registrar's Office, Teacher Education Department and the major advisor.

## Retention in the Teacher Education Program

To be retained in the Teacher Education Program, students must:

1. Maintain a cumulative 2.75 grade point average in all course work.
2. Secondary Education certification candidates must have a minimum cumulative GPA of 2.5 in their major courses.
3. Give evidence of satisfactory professional growth.
4. Show promising development in course work and field experiences.
5. Demonstrate behavior that is ethically and morally responsible.

At the end of the junior year, the teacher education staff will review each student's progress and advise each according to the findings. A student found in violation of any of the above criteria will be placed on probation for the preceding semester. Each semester thereafter, progress will be evaluated for continuance in the program.

## Student Teaching

Student Teaching is a privilege granted to the student through the courtesy of the school and/or district to which the student teacher is assigned. Prompt and regular attendance is required. Students are advised to become familiar with the Student Teaching Handbook prior to student teaching.

Student teaching normally will be taken during the last semester. Student teaching requires full days in the schools for a minimum of 14 consecutive weeks in accordance with the calendar of the school district. Students may not take classes at the university during the hours they are scheduled to student teach, and are limited to 12 credit hours.

Students who do not graduate within six months of student teaching may lose credit for the course and would then need to repeat student teaching. The Teacher Education Committee, prior to consideration for an additional student teaching assignment, must review candidates who withdraw or are withdrawn from a student teaching assignment.

## Admission to Student Teaching

To be eligible for student teaching, students must:

1. Be unconditionally admitted to the Teacher Education Program.
2. Maintain a grade of 'C' or better in courses in the teaching field(s), or academic specialization area, with an overall grade point average of not less than 2.75.
3. Secondary Education certification candidates must have a minimum cumulative GPA of 2.5 in their major courses.
4. Complete a minimum of 45 clock hours of satisfactory work in the field experience component of the professional education courses.
5. Have senior status.
6. Have a commitment to high moral and ethical standards, as defined by the *Bulletin*.
7. Students planning for S.D.A. certification only must complete at least one module in a multi-grade teaching setting.
8. File an application for student teaching by March 1 for a fall student teaching assignment, and by September 15 for a spring assignment.

The Teacher Education Committee will review all applications to determine eligibility for student teaching. Admission to the Teacher Education Program does not necessarily ensure

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acceptance into Student Teaching. Appeals to any decision must be made in writing to the Teacher Education Council, and if needed, to the Vice President for Academic Administration.

### Recommendation to the State Board for Educator Certification

To be recommended to the State Board for Educator Certification (SBEC) for teacher certification, a student must have successfully met the following criteria:

1. All specified course work must be completed on the degree plan or certification plan in which certification is sought.
2. Acceptable scores on the appropriate professional development and content specialization portions of the TExES exam.
3. In accordance with Article 6252-13c, Texas Civil Statutes, the Texas Commissioner of Education may suspend or revoke a teaching certificate, or refuse to issue a teaching certificate, for a person who has been convicted of a felony or misdemeanor for a crime which directly relates to the duties and responsibilities of the teaching profession. All applicants for Texas certificates will be screened for a record of felony or misdemeanor conviction through the Texas Department of Public Safety. Students must make application through the SBEC website and enclose the appropriate fee required for the certificate sought. The Teacher Certification Officer will make recommendations based upon satisfactory completion of all requirements pertaining to certification.

### State Certification

Certification levels for teaching certificates will be:

1. Early Childhood-Grade 6 (EC-GR 6)
2. Grades 4-8 (GR 4-8) (will no longer be offered after Fall 2013).
3. Grades 8-12 (GR 8-12) (will no longer be 8-12 but 7-12 as of Fall 2013) with specialization in English, History, Journalism, Life Science, Physical Science, Mathematics, Speech, or Social Studies (will no longer be offered after Fall 2013 as a composite degree Social Studies but as individual subjects such as History, Geography, etc).
4. All Level Physical Education or Music for Early Childhood-Grade 12 (EC-12).

### Teaching Certification

North American Division of Seventh-day Adventists: Elementary Endorsement for Grades 1-8, Speciality Endorsement in Kindergarten, and Secondary Content Area Endorsement for Grades 7 - 12. Content areas available for Grades 7-12 are Business, English, History, Journalism, Life Science, Mathematics, Music, Physical Education, Social Studies, and Speech.

State of Texas: EC-6, GR 4-8, GR 8-12, and All Level Physical Education and Music K-12. Content areas available for Grades 8-12 are: Business, English, History, Journalism, Life Science, Mathematics, Physical Science, Social Studies and Speech.

### Federal Title II Rating

Southwestern Adventist University is currently ranked in the second quartile nationally for its Title II rating. This reflects a 97% pass rate by students taking the state certification exams during the last year school year.



## Programs

Southwestern Adventist University offers a major in Elementary Education. A major in Secondary Education is not available. A person interested in Secondary Education must complete a major and/or a minor in another discipline in addition to the course work required for teaching certification. The Teacher Education Program consists of three major components; academic foundations (general education), professional development and academic specialization.

## Alternative Certification Program

See page 144.

## A. Academic Foundations

**Required for EC-GR6, GR4-8. (GR8-12, All Level PE or Music K-12 should meet general education requirements on page 62.) Please note that effective Fall 2013 there will no longer be grades 8-12 but grades 7-12.**

General Education Curricula Minimum Requirements\*

<b>English.....</b>		<b>12</b>
COMM111	Speech.....	3
ENGL121	Freshman Composition.....	3
ENGL 220	Research and Professional Writing.....	3
ENGL 231	American Literature I <i>or</i> .....	
ENGL 232	American Literature II.....	3
<b>Social and Behavioral Sciences.....</b>		<b>12</b>
HIST 111	American History.....	3
HIST 112	American History.....	3
HIST 312	Historical and Political Geography <i>or</i>	
ARTS 221	History of Western Art.....	3
POLS 211	Texas & National Constitutions.....	3
<b>Math/Natural and Computer Science.....</b>		<b>12-14</b>
MATH 110	Math (College Algebra or above).....	3
	Two classes of lab Science	8
	It is recommended that you take one semester of life science and one semester of physical science.	
CSIS 102	Microcomputer Literacy <i>or</i> 1 credit equivalent if one passes the challenge exam <i>or</i> .....	1-3
CSIS 104	Spreadsheet and Database Application	1
<b>Health and Physical Education.....</b>		<b>4</b>
KINT 111	Health & Wellness.....	3
	P.E. Activity Elective.....	1
<b>Religion** .....</b>		<b>12</b>
RLGN 101	Christian Beliefs.....	3
RLGN 230	History of the SDA Church.....	3
RLGN 211	Life and Teachings.....	3

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Upper Div. Old Testament, New Testament, or other Bible content class.....	3
Principles of Active Learning***.....	1
Total:	53-55

\* Students who qualify for honors classes may substitute where appropriate.

\*\* 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 three credits; three of the religion credits must be upper division. Transfer students from non-SDA schools must have three hours of religion credit per 30 credits taken in residence at Southwestern, with a minimum of six hours. Though religion classes taken prior to enrollment at Southwestern will be considered for transfer, at least three hours must be from an SDA school, and non-SDA religion classes taken after enrollment here will not be transferred.

\*\*\* All freshmen who have taken less than 12 previous college hours, which does not include credits taken while in high school or by examinations, must enroll in the Principles of Active Learning course.

B. Professional Development

(Required for Elementary Education Majors and for Secondary Education Certification)

PSYC 220	Human Growth and Development.....	3
EDUC 254	Intro to the Teaching Profession.....	3
EDUC 263*	Religion in the SDA School.....	3
EDUC 312	Educational Psychology.....	3
EDUC 326	Exceptional Children.....	3
EDUC 350	Educational Technology.....	3
EDUC 416	Legal and Philosophical Foundations.....	3
EDUC 434	Classroom Assessment.....	3
EDUC 436	Classroom Management.....	3
EDUC 440	Integrating Learning Styles.....	3
EDUC 465, 475, 485	Directed Teaching (selected for chosen Certification).....	6
Total:		36

Secondary Education Certification also requires:

EDUC 322	Adolescent Psychology.....	3
EDUC 450	Teaching in the Secondary School.....	3

\* for SDA certification and state/SDA certification.

C. Academic Specialization

Elementary Education Majors

Option I (Early Childhood - Grade 6)

ARTS 223	Arts and Drama.....	3
KINT 243	P.E./Health in the Elementary School.....	3

MUED 253	Music in the Elementary School.....	3
*EDUC 275	Teaching Culturally Diverse Students.....	3
*EDUC 310	Second Language Instruction.....	3
EDUC 364	Kindergarten Materials & Methods.....	3
EDUC 366	Educational Programs for Young People.....	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 413	Science 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
<b>Total:</b>		<b>39</b>

## **Secondary Education Certification**

### **Option I**

Option one shall prepare the individual to teach in one area of grades 8-12 and shall require completion of a major in one of the following teaching areas:

- English, History, Journalism, Life Science, Mathematics, Physical Science, and Speech.

### **Option II**

Option two shall prepare the individual to teach in two areas of grades 8-12 and shall require completion of a major, plus a minor which includes 24 hours with a minimum of 12 semester hours of upper division courses. The major and minor must both be chosen from the following teaching areas:

- English, History, Journalism, Life Science, Mathematics, Physical Science, Speech

### **Option III - until Fall 2013**

Option three shall prepare the individual to teach in grades 8-12 and shall require completion of a composite teaching field with 24 semester hours in one area, 12 semester hours of which must be upper division, and a minimum of 6 semester hours in each additional area. May include the following composite field:

- Social Studies

### **Option IV - All Level Certification for Physical Education (Grades EC-12)**

Option four leads to an all level certificate and shall prepare the individual to teach Physical Education in Early Childhood through grade twelve and shall require completion of a major in Physical Education.

### **Option V - All Level Certification for Music (Grades EC-12)**

Option five leads to an all level certificate and shall prepare the individual to teach Music in Early Childhood through grade twelve and shall require completion of a major in Music.

**NOTE: IT IS RECOMMENDED THAT YOU OBTAIN A MATRIX OUTLINING THE COURSE OF STUDY FOR THE CERTIFICATION PLAN YOU HAVE CHOSEN.** These may be obtained from the Department of Education or on-line at <http://ed.swau.edu>

### Courses

#### **EDUC 254 - Introduction to the Teaching Profession (3 hours)**

Prerequisite: ENGL 121

An analysis of implications for teachers and teaching as education moves into the 21st century. Focus is on preparing beginning teachers to understand different aspects of diversity and how they can address these differences in their teaching. This course should be the first one taken in the teacher education program.

An introduction to the library research skills used in the field of teaching. The use of primary and secondary sources including the use of on-line data bases will be discussed as well as publication styles. Students will also engage in activities designed to sharpen critical thinking as well as acquaint themselves with current trends in the discipline of teaching. Students will begin the process producing senior portfolio development. **This course fulfills the requirement for UNIV 201: Research in an Academic Discipline as specified in Southwestern's Quality Enhancement Plan.** (Spring)

#### **EDUC 263 - Religion in the SDA School (3 hours)**

A study of a variety of strategies in teaching the Bible creatively. Students will discover an approach to learning that Jesus perfected-totally involving people through active experiences, creating learning environments, adjusting emphasis from teaching to learning, and developing lessons using a model of teaching repertoire. (This course does not apply to religion requirements but is required for Seventh-day Adventist Denominational Certification.) Includes field experience. (Fall)

#### **EDUC 291 - Selected Topics (1-2 hours)**

Prerequisite: Admission to teacher education program, and approval of department chair

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. (Fall, Spring)

#### **EDUC 275 - Teaching Culturally Diverse Students (3 hours)**

Addresses the preparation of teachers for the wide diversity of students they will encounter in their classrooms with an emphasis on developing methods for involving the family in the educational process. Also emphasizes the knowledge and skills needed to help students be better informed and proactive in a multicultural society along with the legal basis for desegregation and multiculturalism in American Education. (Fall)

#### **EDUC 310 - Second Language Instruction and Assessment (3 hours)**

This course will address theoretical and practical aspects of ESL instruction and testing. A variety of teaching strategies will be presented, along with how to incorporate national and state standards in classroom activities. Socio-cultural issues of language and language acquisition will be covered, with an in-depth analysis of how policy affects classroom teaching. Discussion of formal and informal assessment procedures and instruments will also be included to learn basic concepts, issues, and practices related to test design, development, and interpretation and to use this knowledge to select, adapt, and develop assessments for different purposes in the ESL program; to apply knowledge of formal and informal assessments used in the ESL classroom and to know their characteristics, uses, and limitations; and to understand relations among state mandated standards, instruction, and assessment in the ESL program. (Fall)

**EDUC 312 - Educational Psychology (3 hours)**

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. **This course fulfills the requirement for an upper-division course with components as specified in Southwestern's Quality Enhancement Plan.** (Fall)

**EDUC 322 - Adolescent Psychology (3 hours)**

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.) (Spring)

**EDUC 326 - Exceptional Children (3 hours)**

Prerequisite: Admission to teacher education program.

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 PSYC 326.) (Spring)

**EDUC 350 - Educational Technology (3 hours)**

Prerequisite: Admission to teacher education program

The focus of this course is on developing integration strategies and acquiring computer skills for using instructional technology and educational software, digital media, and information technologies appropriate to the K-12 teaching environments. This course will help you reflect on the role various forms of electronic and digital technology can play in the teaching/learning process and how you can engage these processes in your classroom. (Spring)

**EDUC 364 - Kindergarten Materials and Methods (3 hours)**

Prerequisite: Admission to teacher education program and EDUC 366

A course designed to acquaint the student 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. (Fall)

**EDUC 366 - Educational Programs for Young People (3 hours)**

Prerequisite: Admission to teacher education program

A course designed to acquaint the student with the what, who, why, where, and how of early childhood education, ranging from the history of early childhood education to the implementation of developmentally appropriate practice. Includes field experience. (Spring)

**EDUC 375 - Children's Literature and the Teaching of Reading (3 hours)**

Prerequisite: Admission to teacher education program

A course designed to acquaint the student 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. (Fall)

### **EDUC 382 - Reading and Language Arts in the Elementary School (3 hours)**

Prerequisite: Admission to teacher education program

A course designed to acquaint the student 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. (Fall)

### **EDUC 386 - Mathematics in the Elementary School (3 hours)**

Prerequisite: Admission to teacher education program

A course designed to acquaint the student 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. (Fall)

### **EDUC 413 - Science in the Elementary School (3 hours)**

Prerequisite: Admission to teacher education program

A course designed to prepare students 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 and instruct local area elementary students in a laboratory setting. (This course does not apply to science requirements.) (Spring)

### **EDUC 416 - Legal and Philosophical Foundations of Education (3 hours)**

Prerequisite: Admission to teacher education program.

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. This course also surveys the philosophic enterprise, from the Christian viewpoint, as it relates to the understanding and evaluation of contemporary movements in educational thinking. (Fall)

### **EDUC 419 - Social Studies in the Elementary School (3 hours)**

Prerequisite: Admission to teacher education program

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. (Spring)

### **EDUC 424 - Language Arts Essential Skills in the Elementary School (3 hours)**

Prerequisite: Admission to teacher education program and EDUC 382

A course designed to acquaint the student with the principles that underlie the writing workshop and the major components that make it work. (Spring)

### **EDUC 434 - Classroom Assessment (3 hours)**

Prerequisite: Admission to teacher education program and senior class status.

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. **This course fulfills the requirement for a capstone/portfolio completion course with components as specified in Southwestern's Quality Enhancement Plan.** (Spring)

**EDUC 436 - Classroom Management (3 hours)**

Prerequisite: Admission to teacher education program and senior class status.

The purpose of this course is to help 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 teachers to be effective managers of their classrooms so that student learning is maximized. (Spring)

**EDUC 440 - Integrating Learning Styles into the Brain-Based Classroom (3 hours)**

Prerequisite: Admission to teacher education program

This class will report on the latest research regarding teaching with the brain in mind and explore constructivist methods of teaching. The course presents brain-compatible strategies to help students reflect, apply, and transfer skills to real-life learning situations in a diverse classroom environment. A preliminary understanding of learning styles requires some knowledge of brain functioning. Students will be introduced to learning theory related to learning styles and multiple intelligences, as well as web-based resources in both identifying students' learning styles and intelligences and engaging students in activities which best suit those styles and intelligences. (Fall)

**EDUC 450 - Teaching in the Secondary School (3 hours)**

Prerequisite: Admission to student teaching

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. Includes field experience. (Fall)

**EDUC 465 - Directed Teaching in Kindergarten (3 hours)**

Prerequisite: Two-thirds of the professional education classes, academic specialization(s) and academic foundations, senior standing, and admission to student teaching

This course is open only to students seeking Kindergarten Endorsement. Requires full-day observations and student teaching in an approved kindergarten for seven weeks under the direction of supervising teachers. Pass/no pass course. (Fall, Spring)

**EDUC 475 - Directed Teaching in Elementary School (3-6 hours\*)**

Prerequisite: Two-thirds of the professional education classes, academic specialization(s) and academic foundations, senior standing, and admission to student teaching

This course is open only to students 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. (Fall, Spring)

**EDUC 485 - Directed Teaching in Secondary School (6 hours)**

Prerequisite: Two-thirds of the professional education classes, academic specialization(s) and academic foundations, senior standing, and admission to student teaching

This course is open only to students 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. **This course fulfills the requirement for a capstone/portfolio completion course with components as specified in Southwestern's Quality Enhancement Plan.** Pass/no pass course. (Fall, Spring)

## Education

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### **EDUC 491 - Selected Topics (1-2 hours)**

Prerequisite: Admission to teacher education program, and approval of department chair

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. (Fall, Spring)

## **Other Courses Required**

### **ARTS 223 - Arts and Drama (3 hours)**

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. (Spring)

### **KINT 243 - Health and Physical Education in the Elementary School (3 hours)**

The course provides the student with an extensive repertoire of teaching techniques in the elementary physical education classroom. Emphasis is placed on health-related fitness, skill development, special events, and game development. 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.) (Fall)

### **MUED 253 - Music in the Elementary School (3 hours)**

A course designed to prepare teachers to direct the music activities of children. The contents include fundamentals, appreciation, singing and rhythm activities. (Fall)

## **Alternative Certification Program**

This program is designed for individuals who are in possession of an undergraduate degree and their degree is not in the field of education, but they want to enter the teaching profession. It is our goal to prepare individuals for State Certification in the State of Texas by means of online/ campus and field-based delivery systems.

The State Board of Educator Certification (SBEC) establishes the teacher certification standards and grants the certification once students have passed the necessary certification tests as stipulated by said body. This Alternative Certification Program (ACP) prepares and recommends students for certification when they have completed all requirements as stipulated by the Teacher Education Department at Southwestern Adventist University.

## **Admission Requirements**

There are certain general admission requirements for all applicants and other requirements that are specific to your level and area of certification. General admission requirements for all applicants are as follows:

1. **Bachelor's degree from an accredited university.** Note: Applicants who are currently completing degree requirements will not be admitted to (ACP) until degree is confirmed. All applicants with degrees outside of the United States must have these degrees evaluated from an accredited evaluation service and admission to the alternative certification program will be determined by the results of the evaluation. You can obtain an approved list of accredited evaluators from our office or the university registrar ( **Educational Credential Evaluators, Inc., P O Box 514070, Milwaukee, WI. 53203-3470. Tel: 414-289-3400 or website: [www.ece.org](http://www.ece.org)**). If you have already completed this evaluation process, please submit your transcripts and evaluation to The Office of Admissions for further evaluation.



2. **GPA Requirement.** GPA of 2.50 from all post secondary coursework from accredited institutions will be taken into consideration (i.e., community college and college/university) Maintain a minimum cumulative GPA of 2.75 in all courses in the ACP at Southwestern.
3. **Prospective student is responsible for the following.** Completing application for admittance to the ACP (download application form from department website: [acp.swau.edu](http://acp.swau.edu))
  - A statement of purpose – one page, typed essay describing reasons for desiring a profession in the teaching field
  - Two letters of recommendation from individuals other than relatives. Preferably, these recommendations should come from work experience supervisors or former professors
  - Before acceptance to the program all students must submit to and pay for a criminal background check.
4. **Cost of Program.**
  - Application : \$75
  - A package price of \$5,000.00 will be charged for this program. A portion of this fee is designated as a training fee (\$200.00 for exam preparation and \$400.00 for the internship) Students will be responsible for purchasing their textbooks.
  - Financial aid will be available to qualifying students. All fees related to TExES exam fees and SBEC certification fees are not included as part of the program costs – students pay for their probationary and standard certificates
5. **Length of Program.** 12 – 18 months
6. **To maintain Program status students must:**
  - Give evidence of satisfactory professional growth
  - Show promising development during internship period
  - Demonstrate behaviors that are ethically and morally responsible

See current *Bulletin* under the Education section for additional information regarding student teaching and recommendation to SBEC for certification.

## **Certification Areas**

### **Early Childhood (EC-GR6)**

- EC-GR6 Generalist
- EC-GR6 Generalist/ESL

### **Secondary Areas (GR8-12)**

- English Language Arts and Reading
- Life Science
- Mathematics
- Social Studies Composite

### **All Level Areas**

- Music Education (EC-GR12)
- Physical Education (EC-GR12)

# Education

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## Course of Study for Certification Areas:

### 1. Elementary Education

Early Childhood - Grade 6

CERT 382	Reading and Language Arts.....	2
CERT 386	Mathematics Methods.....	2
CERT 326	Exceptional Children.....	2
CERT 413	Science Methods.....	2
CERT 424	Language Arts Essential Skills in the Elementary School.....	2
CERT 312	Educational Psychology.....	2
CERT 436	Classroom Management.....	2
CERT 450	Teaching Methods.....	2
CERT 434	Classroom Assessment.....	2
CERT 475	Directed Teaching.....	4

### 2. Secondary Education

Option 1 (English Language Art and Reading 8 – 12)

CERT 312	Educational Psychology.....	3
CERT 382	Reading and Language Arts.....	3
CERT 326	Exceptional Children.....	3
CERT 434	Classroom Assessment.....	3
CERT 436	Classroom Management.....	3
CERT 450	Teaching Methods.....	3
CERT 485	Directed Teaching.....	4

Option 2 (Mathematics 8 – 12)

CERT 312	Educational Psychology.....	3
CERT 326	Exceptional Children.....	3
CERT 386	Mathematics Methods.....	3
CERT 434	Classroom Assessment.....	3
CERT 436	Classroom Management.....	3
CERT 450	Teaching Methods.....	3
CERT 485	Directed Teaching.....	4

Option 3 (Social Studies 8 -12)

CERT 312	Educational Psychology.....	3
CERT 326	Exceptional Children.....	3
CERT 434	Classroom Assessment.....	3
CERT 436	Classroom Management.....	3
CERT 450	Teaching Methods.....	3
CERT 485	Directed Teaching.....	4

Option 4 (Life Science 8 -1

CERT 312	Educational Psychology.....	3
CERT 326	Exceptional Children.....	3
CERT 413	Science Methods.....	3
CERT 434	Classroom Assessment.....	3
CERT 436	Classroom Management.....	3

CERT 450	Teaching Methods.....	3
CERT 485	Directed Teaching.....	4

### 3. All Level Education

#### Option 1 (Music EC – 12)

CERT 253	Music Methods.....	3
CERT 312	Educational Psychology.....	3
CERT 326	Exceptional Children.....	3
CERT 434	Classroom Assessment.....	3
CERT 436	Classroom Management.....	3
CERT 450	Teaching Methods.....	3
CERT 485	Directed Teaching.....	4

#### Option 2 (Physical Education EC – 12)

CERT 243	Physical Education and Health Methods.....	3
CERT 312	Educational Psychology.....	3
CERT 326	Exceptional Children.....	3
CERT 434	Classroom Assessment.....	3
CERT 436	Classroom Management.....	3
CERT 450	Teaching Methods.....	3
CERT 485	Directed Teaching.....	4

### Alternative Certification Courses

#### **CERT 243 - Physical Education/Health Methods (3 hours)**

The course provides the 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.

#### **CERT 253 - Music Methods (3 hours)**

A course designed to prepare teachers to direct the music activities of children in all levels (EC – 12). The contents include fundamentals, appreciation, singing and rhythm activities.

#### **CERT 312 - Educational Psychology (2–3 hours)**

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.

#### **CERT 326 - Exceptional Children (2-3 hours)**

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.

**CERT 382 - Reading and Language Arts (2–3 hours)**

A course designed to acquaint the student 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

**CERT 386 - Mathematics Methods (2–3 hours)**

A course designed to acquaint the student 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.

**CERT 413 - Science Methods (2–3 hours)**

A course designed to prepare students 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.)

**CERT 419 - Social Studies Methods (3 hours)**

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.

**CERT 424 - Language Arts Essential Skills in the Elementary School (2 hours)**

A course designed to acquaint the student with the principles that underlie the writing workshop and the major components that make it work.

**CERT 434 - Classroom Assessment (2-3 hours)**

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.

**CERT 436 - Classroom Management (2-3 hours)**

The purpose of this course is to help 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 teachers to be effective managers of their classrooms so that student learning is maximized.

**CERT 450 - Teaching Methods (2-3 hours)**

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. Includes field experience.

**CERT 475 - Directed Teaching in the Elementary School (4 - 6 hours)**

Prerequisite: Two-thirds of the professional education classes as outlined in the Alternative Certification Program.

This course is open only to students 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.

**CERT 485 - Directed Teaching in the Secondary School (4 - 6 hours)**

Prerequisite: Two-thirds of the professional education classes as outlined in the Alternative Certification Program.

This course is open only to students 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.



## Faculty/Staff

Renard Doneskey, Chair.

Susan Gardner, Judy Myers Laue, Karl Wilcox, Andrew Woolley III.

## 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 and Professional Writing all students at the university learn how to write coherent, well-organized essays. Students also will 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 or for graduate study in English. 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

### 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, B.A.

ENGL 211	Approaches to Literary Research and Criticism.....	3
ENGL 221	World Masterpieces I <i>or</i>	
ENGL 222	World Masterpieces II.....	3
ENGL 231	American Literature I <i>or</i> .....	
ENGL 232	American Literature II.....	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
And a minimum of 12 hours from:.....		12
ENGL 451	Studies in Renaissance Literature <i>or</i>	
ENGL 454	Studies in Medieval Literature	3
ENGL 452	Studies in 17th Century Literature <i>or</i>	
ENGL 453	Studies in 18th Century Literature	3
ENGL 355	Studies in Romantic Literature <i>or</i>	
ENGL 456	Studies in Victorian Literature	3
ENGL 457	Studies in 20th Century Literature <i>or</i>	
ENGL 459	The American Classics	3
<b>Total:</b>		<b>33</b>

\*ENGL 464 is prerequisite to EDUC 485.

## English

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### English Minor

ENGL 221	World Masterpieces I <i>or</i>	
ENGL 222	World Masterpieces II.....	3
ENGL 224	Survey of English Literature.....	3
ENGL 231	American Literature I <i>or</i>	
ENGL 232	American Literature II.....	3
ENGL 464	Advanced Grammar.....	3
And a minimum of 6 hours from:.....		6
ENGL 451	Studies in Renaissance Literature	(3)
ENGL 452	Studies in 17th Century Literature	(3)
ENGL 453	Studies in 18th Century Literature	(3)
ENGL 454	Studies in Medieval Literature	(3)
ENGL 455	Studies in Romantic Literature	(3)
ENGL 456	Studies in Victorian Literature	(3)
ENGL 459	The American Classics	(3)
<b>Total:</b>		<b>18</b>

### 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.

#### English Minor - Secondary Teaching Area Option II

ENGL 221	World Masterpieces I <i>or</i>	
ENGL 222	World Masterpieces II.....	3
ENGL 224	Survey of English Literature.....	3
ENGL 231	American Literature I.....	3
ENGL 464	Advanced Grammar*.....	3
And a minimum of 12 hours from:.....		12
ENGL 451	Studies in Renaissance Literature	(3)
ENGL 452	Studies in 17th Century Literature	(3)
ENGL 453	Studies in 18th Century Literature	(3)
ENGL 454	Studies in Medieval Literature	(3)
ENGL 455	Studies in Romantic Literature	(3)
ENGL 456	Studies in Victorian Literature	(3)
ENGL 457	Studies in 20th Century Literature	(3)
ENGL 459	The American Classics.....	(3)
<b>Total:</b> .....		<b>24</b>

\* ENGL 464 is prerequisite to EDUC 485.



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## Composition Courses

### **ENGL 021 - Composition Review (3 hours)**

This class is required of students whose SAT Critical Reading score is below 430 or whose ACT English score is below 17. Those students who enroll in ENGL 121 and demonstrate in their introductory essay that they need reinforcement in basic mechanics, usage, and structure will be advised to enroll in this class. Credit will not apply toward graduation.

A basic review of spelling, punctuation, and grammar. Special emphasis will be given to the construction of a coherent paragraph. (Fall, Spring)

### **ENGL 121 - Freshman Composition (3 hours)**

Prerequisite: Minimum SAT Critical Reading score of 430, a minimum ACT English score of 17, a minimum grade of C in ENGL 021, or successful completion of the ESL program with a score of 80 on the Michigan Test of Language Proficiency.

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. (Fall, Spring)

### **ENGL 211 - Approaches to Literary Research and Criticism (3 hours)**

Prerequisite: ENGL 121, 220. ENGL 220 can be taken concurrently.

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. **This course fulfills the requirement for UNIV 201: Research in an Academic Discipline as specified in Southwestern's Quality Enhancement Plan.** (Spring)

### **ENGL 220 - Research and Professional Writing (3 hours)**

Prerequisite: ENGL 121 and sophomore status

This course focuses on elements of research and information literacy skills, writing using sources, and professional career writing. Structured for students from a variety of academic disciplines, the course emphasizes the rhetorical principles of audience, purpose, and genre and practice with APA/MLA documentation. A major focus includes critically evaluating scholarly and popular resources, both hard copy and electronic. (Fall, Spring)

### **ENGL 342 - Composition Theory and Practice (3 hours)**

Prerequisite: ENGL 121, 220

A study emphasizing both the theoretical and practical aspects fundamental to successful writing or 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. (Fall)

### Literature Courses

#### **ENGL 221 - World Masterpieces: Ancient to Enlightenment (3 hours)**

Prerequisite: ENGL 121, 220

A basic course with emphasis on an understanding of and an appreciation for the various types of literature including poetry, drama, and prose. Selections will be chosen from English and world literature. (Fall)

#### **ENGL 222 - World Masterpieces: Enlightenment to Contemporary (3 hours)**

Prerequisite: ENGL 121, 220

A continuation of the study of world masterpieces from the Enlightenment to modern literature. (Spring)

#### **ENGL 224 - Survey of English Literature (3 hours)**

Prerequisite: ENGL 121, 220

A survey of major figures and trends in British literature from the Anglo-Saxon period into the 20th century. (Spring)

#### **ENGL 231 - American Literature I (3 hours)**

Prerequisite: ENGL 121, 220

A comprehensive study of the major writers and literary movements from 1609-1860 with emphasis on Franklin, Hawthorne, Whitman, and Dickinson. The class focuses on the establishment of a distinctly American literature in both content and style. (Spring)

#### **ENGL 232 - American Literature II (3 hours)**

Prerequisite: ENGL 121, 220

A continuation of the study of American literature from 1860 to the present. Deals with the genres of the novel, poetry, and the short story with focus on the way Americans prefer individual freedom to society's accepted norms. (Fall)

#### **ENGL 322 - Literary Perspectives (3 hours)**

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 requirement.

#### **ENGL 451 - Studies in Renaissance Literature (3 hours)**

Prerequisite: ENGL 121, 220

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 fulfills the requirement for an upper-division course with components as specified in Southwestern's Quality Enhancement Plan.** May be taken for general education credit with permission of the instructor only. (Spring, even years)

**ENGL 452 - Studies in 17th Century Literature (3 hours)**

Prerequisite: ENGL 121, 220

English prose and poetry from 1603-1660 with particular attention to the poetry of Jonson, Donne, and Herbert with a more detailed study of John Milton and his major poems. May be taken for general education credit with permission of the instructor only. (Fall, odd years)

**ENGL 453 - Studies in 18th Century Literature (3 hours)**

Prerequisite: ENGL 121, 220

English poetry and prose from 1660-1800 with special attention to the major works of Dryden, Swift, and Pope. May be taken for general education credit with permission of the instructor only. (Fall, even years)

**ENGL 454 - Studies in Medieval Literature (3 hours)**

Prerequisite: ENGL 121, 220

A study of 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. May be taken for general education credit with permission of the instructor only. (Spring, odd years)

**ENGL 455 - Studies in Romantic Literature (3 hours)**

Prerequisite: ENGL 121, 220

Representative English Romantic poetry and prose with special emphasis on Wordsworth, Coleridge, Shelley, Keats, and Byron. May be taken for general education credit with permission of the instructor only. (Spring, odd years)

**ENGL 456 - Studies in Victorian Literature (3 hours)**

Prerequisite: ENGL 121, 220

A study of British poetry, novels, essays, and plays from 1830-1900. Emphasis on Dickens, R. Browning, Hardy, and E. Bronte. **This course fulfills the requirement for an upper-division course with components as specified in Southwestern's Quality Enhancement Plan.** May be taken for general education credit with permission of the instructor only. (Fall, odd years)

**ENGL 457 - Studies in 20th Century Literature (3 hours)**

Prerequisite: ENGL 121, 220

A study of the major trends and writers in English and American literature since 1900. **This course fulfills the requirement for an upper-division course with components as specified in Southwestern's Quality Enhancement Plan.** May be taken for general education credit with permission of the instructor only. (Spring, even years)

**ENGL 458 - Literary Analysis (3 hours)**

Prerequisite: Completion of all lower-division English requirements.

An examination of literary theories and genres and their application to selected works of literature. Designed as a capstone to the English major, this class will be taken during the student's senior year and serves as the fourth-year writing class. **This course fulfills the requirement for a capstone/portfolio completion course with components as specified in Southwestern's Quality Enhancement Plan.** (Spring)

### **ENGL 459 - The American Classics (3 hours)**

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. May be taken for general education credit with permission of instructor only. (Spring, odd years)

## **Other Courses**

### **ENGL 272 - Introduction to Drama (3 hours)**

Prerequisite: Permission of instructor

A study of representative plays written in English, considering their literary history and dramatic staging. Students will help to produce a play for the university, cultivating voice control, stage presence, character creation, and stage management. May be repeated. Elective credit only; does not apply toward the general education requirement. (Spring)

### **ENGL 291 - Selected Topics (1-3 hours)**

Prerequisite: Approval by department chair

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. May be repeated for a total of 3 credits.

### **ENGL 414 - History of the English Language (3 hours)**

Prerequisite: ENGL 121, 220

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. (Fall, even years)

### **ENGL 464 - Advanced Grammar (3 hours)**

Prerequisite: ENGL 121, 220

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. (Fall)

### **ENGL 491 - Selected Topics (1-3 hours)**

Prerequisite: Approval by department chair

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. May be repeated for a total of 3 credits.

# English as a Second Language

## Faculty/Staff

Monica Kowarsch-Martinez, Program Director

Adjunct: Sheralee Thomas, Randy Yates

## English as a Second Language

Intensive English Language courses are designed to immerse limited English proficient (LEP) students in the English language. These remedial ESL classes will help the student develop the language and language-related skills necessary to progress in the university program. These classes cover phonetics, syntax, aural comprehension, speech, reading, vocabulary and writing skills. Classes and laboratories are taught in English for four to six hours a day, according to the individual student's needs. Students will also have opportunities to visit various tourist attractions in Texas to extend their language learning beyond school and gain valuable experience in cultural and social aspects. Twelve hours of 100 level ESL classes may apply to a Bachelor's Degree and six hours may apply to an Associate Degree.

## Admission

Students must meet all admission requirements for enrollment at Southwestern Adventist University.

Students taking ESL classes will take the Michigan Placement Test to determine the level of ESL classes best suited to their level of English proficiency. Students will then be advised on the courses they should take. Students may also take university courses along with Level 3 ESL courses if they have taken the Michigan Test of English Language Proficiency and the results show they have the proficiency necessary to succeed in selected courses. Students in Level 3 are encouraged to take UNIV 110 along with ESL courses.

For academic advising, the results of the ESL course work will be evaluated along with the Michigan Test of English Language Proficiency.

## Courses

### **ESOL 010 - Oral Composition (3 hours)**

A basic course that introduces language used in everyday life on the university campus and in society. Emphasis is placed on the development of vocabulary, phrases necessary to function in all social interactions, clear pronunciation, and fluent speech. (Fall, Spring)

### **ESOL 012 - Advanced Oral Composition (3 hours)**

This course includes an introduction to the phonology of the English language. Specific listening skills are developed. Class time is given to practical exercises developing extemporaneous and prepared speech. Fluency and accuracy are encouraged. (Fall, Spring)

### **ESOL 020 - Grammar (3 hours)**

Introduction to the basics of English spelling, handwriting, parts of speech, punctuation, and sentence patterns. (Fall, Spring)

## English as a Second Language

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### **ESOL 025 - Advanced Grammar (3 hours)**

Study of the structure of English sentence patterns, parts of speech, verb tenses and forms, idioms, and spelling. (Fall, Spring)

### **ESOL 030 - Reading I (3 hours)**

An introduction to reading in the English language with emphasis on developing vocabulary and comprehension skills. (Fall, Spring)

### **ESOL 035 - Reading II (3 hours)**

This course is designed to develop phonetic skills as well as emphasize the understanding of vocabulary in context, reading for the main idea, reading for facts and details, and making inferences. (Fall, Spring)

### **ESOL 050 - Writing I (3 hours)**

This course is designed to develop the creation of original sentences and paragraphs. Students move from sentence-level writing to guided paragraphs. (Fall, Spring)

### **ESOL 055 - Writing II (3 hours)**

Guided composition practice with a focus on the process of writing paragraphs. Emphasis on different patterns of organization, coherence, transitions, and error correction. (Fall, Spring)

### **ESOL 113 - Writing III (3 hours)**

This course provides an overview of the writing process with practice in revising and editing. Extensive practice in writing five-paragraph essays of different rhetorical modes and summaries. (Fall, Spring)

### **ESOL 116 - Speech Composition and Comprehension (3 hours)**

A study of the phonology of the English language, with in-class practice of the sounds, stress, intonation, and inflection of words, phrases, and sentences. This class emphasizes listening skills necessary for taking notes and discussion techniques for participating in mainstream classes. Emphasis is given to fluent speech as well as pronunciation. (Fall, Spring)

### **ESOL 121 - Reading III (3 hours)**

This course is designed to bring the reading skills of LEP students up to college entry standards. This course includes intensive exercises in reading, comprehension, making inferences, vocabulary, discussion, and oral presentation. (Fall, Spring)

### **ESOL 131 - English Structure and Usage (3 hours)**

Review of all English grammar structures with concentration on preparation for the university entrance tests. Emphasis is given to the understanding and use of structural patterns. (Fall, Spring)

# General Studies

## Faculty/Staff

Judy Miles, Advisor

Tom Bunch, Advisor

Cristina Thomsen, Advisor

Alfredo Vergel, Advisor

## Aim of the Department

The General Studies program at Southwestern Adventist University is designed for students whose main goal is to earn a college degree without specializing in a major or minor field of emphasis. Students will be able to choose from a wide selection of classes and yet meet the requirements of the General Education Program within a liberal arts curriculum.

The Interdisciplinary Studies program allows students, with planning, to enhance their education program by including an area of emphasis not offered on campus.

## Programs

- A.S. General Studies
- B.S. General Studies
- B.S. Interdisciplinary Studies

### A.S. in General Studies

The A.S. in General Studies requires completion of 64 hours and a minimum GPA of 2.0, with at least 24 hours taken in residence. The last 12 hours before graduation must be taken in residence at SWAU. This degree includes all General Education courses required for a Bachelor's degree, with the following exception: 6 hours of religion instead of 12 will be required.

The Associate of Science degree is considered a terminal degree and is available only for students who do not plan to pursue a Bachelor's degree at Southwestern Adventist University.

### B.S. in General Studies

The B.S. in General Studies requires the following:

1. Meet the general education, residency and upper division requirements.
2. Complete one area of emphasis of 30 hours (12 hours upper division in residence) or two areas of emphasis with 18 hours each (6 hours upper division in residence in each emphasis). Areas of emphasis will typically be determined by course prefix, and will include only classes that would be applicable to a major. No course with a grade below C may apply toward an emphasis.
3. Earn a minimum GPA of 2.25 in upper division emphasis course work. No course with a grade below C may apply towards an area of emphasis.
4. After earning a Bachelor of Science in General Studies, a student may return to earn a second Bachelor's degree. However, an area of emphasis may only be used as a major in

## General Studies

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the second degree if there are 30 additional hours available in the major. A minimum of 158 cumulative semester hours is required to earn the second degree.

### **B.A./B.S. in Interdisciplinary Studies**

A student who has a specific career goal not included in the list of majors and minors may counsel with the Academic Vice President about a Bachelor of Science degree in Interdisciplinary Studies. Since this is a planned course of study, which may include courses not offered on our campus, approval must be sought and granted before completion of 64 semester hours. The development of this plan is done in consultation with a selected faculty advisor and with one or more selected faculty members from separate academic disciplines who then comprise the faculty committee for the program. A degree proposal must be submitted to the Records Office which includes the following:

1. A short essay which explains the proposed course of study.
2. An abstract which can be included with the student's transcript.
3. Two areas of emphasis which include a minimum of 24 hours each (9 hours upper division from each emphasis) or three areas of emphasis which include a minimum of 18 hours each (6 hours upper division from each emphasis). Areas of emphasis will typically be determined by course prefix, and require a minimum grade of C in all classes.
4. Courses must be grouped by general education, areas of emphasis, and electives under the headings of Courses Completed, Courses In-progress and Proposed Courses.
5. Upper division courses should be identified with an asterik (\*) and must total a minimum of 40 hours.
6. All courses taken or planned to be taken off-campus must be identified as such.
7. Signatures by each faculty member of the committee.

The approved program will become the student's major, and the Registrar will determine the student's readiness for graduation by checking compliance with all components of the degree.



# Geology

## Faculty/Staff

Art Chadwick, Chair.

## Programs

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.

### Freshman Year

GEOL 111, 112	Physical Geology & Historical Geology.....	8
BIOL 111, 112	General Biology.....	8
CHEM 111, 112	General Chemistry.....	8
MATH 121	Precalculus.....	3
ENGL 121	Freshman Composition.....	3
	Elective.....	3
<b>Total:</b>		<b>33</b>

### Summer

GEOL 240	The Dinosaurs.....	4
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### Sophomore Year

GEOL 220	Mineralogy.....	4
PHYS 111, 112	General Physics.....	8
CHEM 310	Environmental & Geological Chemistry.....	4
ENGL 220	Research Writing.....	3
PEAC	Elective.....	1
RLGN	Elective.....	3
HIST	Elective.....	3
	Elective.....	6
<b>Total:</b>		<b>32</b>

## Geology Courses

### GEOL 111 - Physical Geology (4 hours)

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. 3 Lec 3 Lab. Field trip fee. (Offered periodically)

### GEOL 112 - Principles of Historical Geology and Paleontology (4 hours)

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. 3 Lec 3 Lab. Field trip fee. (Offered periodically)

### **GEOL 220 - Mineralogy (4 hours)**

Prerequisite: GEOL 112, 112, CHEM 112

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. 3 Lec 3 Lab. (Spring, even years.)

### **GEOL 240 - The Dinosaurs (4 hours)**

Prerequisite: GEOL 112 or permission of instructor.

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. 3 Lec 1 Lab (Summer)

### **GEOL 291 - Selected Topics (1-3 hours)**

Prerequisite: GEOL 111, 112, and approval of instructor.

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.

### **GEOL 320 - Stratigraphy and Sedimentary Petrology and Petrography (4 hours)**

Prerequisite: GEOL 111 and 112.

An introduction to the description, origin, and historical interpretation of stratified rocks. (Offered periodically)

### **GEOL 330 - Summer Field Geology (4 hours)**

Prerequisite: GEOL 320

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. 3 Lec 1 Lab (Summer)

### **GEOL 380 - Research Methods (2 hours)**

Prerequisite: GEOL 111, 112 or any entry level science sequence.

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. (Fall)

### **GEOL 419 - Philosophy of Science (3 hours)**

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 RLGN or BIOL 419.) This course meets the upper division writing component for senior year English and supports SWAU's Quality Enhancement Plan. (Spring)

### **GEOL 480 - Research in Geology (1-3 hours)**

Prerequisite: GEOL 380 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. (Offered periodically.)

### **GEOL 481 - Senior Thesis (1 hour)**

Prerequisite: GEOL 480

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. **This course meets the upper division writing component for senior year English and supports Southwestern Adventist University's Quality Enhancement Plan.** (Spring)

### **GEOL 491 - Selected Topics (1-3 hours)**

Prerequisite: GEOL 111, 112; two upper division courses, and permission of the instructor.

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.



# History & Social Science

## Faculty/Staff

R. Steven Jones, Chair.

Eric Anderson, Elizabeth Bowser, Robert Gardner, Benjamin McArthur, Cristina M. Thomsen,  
Senior Lecturer: Erwin Sicher.

## Mission Statement

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.

## Programs

- B.A. European Civilization
- B.A. History
- B.A. History - Secondary Certification
- B.S. Social Science
- B.S. Social Studies - Secondary Certification
- B.A. Social Science, emphasis on International Affairs
- Minors in History, Political Science and Social Science

## History, B.A.

HIST 111	US History 1492-1865.....	3
HIST 112	US History 1865-Present.....	3
HIST 201	Historical Methods: Research & Historiography.....	3
HIST 211	History of Western Civilization I.....	3
HIST 212	History of Western Civilization II.....	3
History electives (nine hours must be non-U.S. history*).....		21
<i>Choose from:</i>		
HIST 320	American International Relations	
HIST 326	From Colony to Nation, 1607-1783	
HIST 331	History of Christianity I*	

# History & Social Science

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HIST 332	History of Christianity II
HIST 335	Establishing a Nation, 1783-1836
HIST 345	Sectionalism and Civil War, 1836-1865
HIST 355	Reconstruction and Reunion, 1865-1917
HIST 360	History of the British Isles*
HIST 370	East Asian History*
HIST 364	Ancient Cultures *
HIST 365	Global Power: America 1917-Present
HIST 414	Early Modern Europe*
HIST 415	Texas and the West
HIST 424	Modern Europe*
HIST 430	Medieval Europe*

SPAN 315 Spanish Civilization and Culture or SPAN 317 Spanish American Civilization may be used to fulfill three hours of the non-U.S. requirement.

**Total: 36**

**Required cognates:**

POLS elective.....	3
Intermediate Year Foreign Language.....	6

**History Minor**

All history minors are required to take 18 semester hours of history (9 hours u.d.) which must include HIST 111, 112 and 211 or 212.

**European Civilization, B.A.**

- 1. Prerequisite: Intermediate-level language: Spanish, French, German, or Italian.
- 2. ACA program language study: **18 hours** (27 qu. hours) (At least 6 ud [9 ud qu. hours])
- 3. Humanities courses at Southwestern: **16 hours**

HIST 201	Historical Methods
MUHL 221	Survey of Music
ARTS 221	History of Western Art
ENGL 451,	452, 453, 454, 455 or 456
HIST 364,	414, 424 or 430 or SPAN 315
HIST 475	Portfolio Development

Students will also complete and present a Senior Thesis.

**Social Science, B.A., emphasis on International Affairs**

- 1. Prerequisite: Intermediate-level language: Spanish, French, German, or Italian.
- 2. ACA program language study: **9 hours** (14 qu. hours) (At least 3 ud [5 ud qu. hours])
- 3. Social Science courses at Southwestern: **22 hours**

HIST 112	US History 1865 - Present
HIST 212	History of Western Civilization II
HIST 201	Historical Methods
HIST 312	Historical and Political Geography
POLS 320	American International Relations

HIST 365	Global Power: America 1917 to Present
HIST 424,	SPAN 315 <i>or</i> 317
HIST 475	Portfolio Development

Students will also complete and present a Senior Thesis.

### Political Science Minor

All political science minors are required to take 18 semester hours of political science (9 hours u.d.) which must include POLS 211.

### Social Science Minor

The minor in social science requires 24 semester hours (9 hours u.d.) which must include HIST 112 and 212. The remaining hours must include 3 hours of historical/political geography, 6 hours of political science, 6 hours of economics, and 3 hours of history electives.

### Social Science, B.S.

HIST 111	US History 1492-1865.....	3
HIST 112	US History 1865-Present.....	3
HIST 201	Historical Methods: Research & Historiography.....	3
HIST 211	History of Western Civilization I.....	3
HIST 212	History of Western Civilization II.....	3

History electives (nine hours must be non-U.S. history\*)..... 18

*Choose from:*

HIST 320	American International Relations
HIST 326	From Colony to Nation, 1607-1783
HIST 331	History of Christianity I*
HIST 332	History of Christianity II
HIST 335	Establishing a Nation, 1783-1836
HIST 345	Sectionalism and Civil War, 1836-1865
HIST 355	Reconstruction and Reunion, 1865-1917
HIST 360	History of the British Isles*
HIST 364	Ancient Cultures*
HIST 365	Global Power: America 1917-Present
HIST 370	East Asian History*
HIST 414	Early Modern Europe*
HIST 415	Texas and the West
HIST 424	Modern Europe*
HIST 430	Medieval Europe*

SPAN 315 Spanish Civilization and Culture or SPAN 317 Spanish American Civilization may be used to fulfill three hours of the non-U.S. requirement.

Political Science electives..... 6

*Choose from:*

POLS 211	National and Texas Constitutions
POLS 320	American International Relations
POLS 360	American National Government
POLS 364	American Constitutional Development
POLS 425	Executive Leadership

## History & Social Science

HIST 312	Historical and Political Geography.....	3
ECON 211	Macroeconomics <i>or</i> .....	
ECON 212	Microeconomics.....	3
COMM 110	Mass Communication.....	3
<b>Total:</b>		<b>48</b>

No language is required for the B.S. degree. Because the B.S. in Social Science is a composite major, no minor is required.

### Teaching Certification Program

The following history and social studies majors and minors are 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.

#### History, B.A. - Secondary Teaching Area

HIST 111, 112	American History.....	6
HIST 211, 212	History of Western Civilization.....	6
HIST 201	Historical Methods: Research & Historiography.....	3
HIST *	Electives (including 9 hrs. non-U.S. History).....	21
<b>Total (21 hrs. must be u.d.):</b>		<b>36</b>

#### History Minor - Secondary Teaching Area Option II

HIST 111, 112	American History.....	6
HIST 211, 212	History of Western Civilization.....	6
HIST *	Electives (including 9 hrs. non-U.S. History).....	12
<b>Total (12 hrs. must be u.d.):</b>		<b>24</b>

#### Social Studies, B.S. - Secondary Teaching Area Option IV

HIST 111, 112	American History.....	6
HIST 201	Historical Methods: Research & Historiography.....	3
HIST 211, 212	History of Western Civilization.....	6
HIST 312	Historical and Political Geography.....	3
HIST 415	Texas and the West.....	3
HIST	Electives (u.d.).....	9
HIST *	Non-U.S. History (as specified below).....	9
POLS	Electives.....	6
ECON	Electives.....	6
<b>Total:</b>		<b>51*</b>

*The following are non-U.S. History courses:*

HIST 331	History of Christianity I.....	3
HIST 360	History of the British Isles.....	3
HIST 364	Ancient Cultures.....	3
HIST 370	East Asian History.....	3
HIST 414	Early Modern Europe.....	3
HIST 424	Modern Europe.....	3
HIST 430	Medieval Europe.....	3



**History Courses****HIST 111 - American History, 1492-1865 (3 hours)**

A brief account of the discoveries, colonization, and the struggle for independence; growth of federal government, expansion of territory, and the Civil War. (Fall)

**HIST 112 - American History, 1866 to Present (3 hours)**

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. (Spring)

**HIST 201 - Historical Methods: Research and Historiography (3 hours)**

Prerequisite: ENGL 121

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. **This course fulfills the requirement for UNIV 201: Research in an Academic Discipline as specified in Southwestern's Quality Enhancement Plan.** (Spring)

**HIST/HNRS 204 - Advanced American History, 1866-Present (3 hours)**

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. (Spring)

**HIST/HNRS 206 - Advanced Western Civilization, early times to the 16th Century (3 hours)**

A study of key issues, events, and transformations that form the basis for pre-modern western civilization and established the foundations for early modern and modern western history, including the Agricultural Revolution, the development of Hebrew monotheism, classical Greek social ideas, the rise and fall of the Roman empire, and medieval Europe. Students taking this course should not take HIST 211, History of Western Civilization. (Fall)

**HIST 211 - History of Western Civilization I (3 hours)**

A study of Near Eastern and Western man's past from the earliest time to the 16th Century. Special attention is given to man's evolving cultural framework, his changing ideas and beliefs, his views of human nature, the world, the universe, the deity, and the good life. The rise and fall of many of the Near Eastern and Western empires will also be considered. (Fall)

**HIST 212 - History of Western Civilization II (3 hours)**

The course of European history from the 16th Century to the present. Examined will be the political, social, cultural, and economic history of that period, including the Age of Absolutism, the Scientific Revolution, the Enlightenment, the Age of Revolution, the Nineteenth Century "isms", world wars, cold wars, and contemporary history. (Spring)

### **HIST 221 - History of Western Art (3 hours)**

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) (Spring)

### **HIST 291 - Selected Topics (1-3 hours)**

Prerequisite: Approval of department chair.

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.

### **HIST 312 - Historical and Political Geography (3 hours)**

This course considers the interaction between world cultures, environments, and geographic regions to explain patterns of human history and political development. (Also taught as GEOG 312) (Spring, odd years)

### **HIST 320 - American International Relations (3 hours)**

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. **This course fulfills the requirement for an upper-division course with components as specified in Southwestern's Quality Enhancement Plan.** (Also taught as POLS 320) (Fall, odd years)

### **HIST 326 - From Colony to Nation, 1607-1783 (3 hours)**

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. **This course fulfills the requirement for an upper-division course with components as specified in Southwestern's Quality Enhancement Plan.** (Offered periodically)

### **HIST 331, 332 - History of Christianity I, II (3, 3 hours)**

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) (Spring)

### **HIST 335 - Establishing a Nation, 1783-1836 (3 hours)**

An in-depth study of United States history from the Articles of Confederation through the Constitution, War of 1812, and Jacksonian Democracy. (Offered periodically)

### **HIST 345 - Sectionalism and Civil War, 1836-1865 (3 hours)**

American history from the Reform Era through Manifest Destiny, Sectionalism and Civil War. This course fulfills the requirement for an upper-division course with components as specified in Southwestern's Quality Enhancement Plan. (Spring, odd years)

### **HIST 355 - Reconstruction and Reunion, 1865-1917 (3 hours)**

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. (Spring, even years)

### **HIST 360 - History of the British Isles (3 hours)**

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. (Offered periodically)

### **HIST 364 - Ancient Cultures (3 hours)**

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. (Fall, even years)

### **HIST 365 - Global Power: America from 1917 to Present (3 hours)**

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. **This course fulfills the requirement for an upper-division course with components as specified in Southwestern's Quality Enhancement Plan.** (Spring, even years)

### **HIST 370 - East Asian History (3 hours)**

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. (Offered periodically)

### **HIST 414 - Early Modern Europe (3 hours)**

A survey of the Renaissance, Reformation, counter-Reformation, Absolutism, competition for empire, the Scientific Revolution, the Enlightenment, and the coming of Revolutions. (Fall, odd years)

### **HIST 415 - Texas and the West (3 hours)**

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. **This course fulfills the requirement for an upper-division course with components as specified in Southwestern's Quality Enhancement Plan.** (Fall, even years)

### **HIST 424 - Modern Europe (3 hours)**

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. (Spring, even years)

### **HIST 430 - Medieval Europe (3 hours)**

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. (Spring, even years)

## History & Social Science

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### **HIST 475 - Portfolio Development (1 hour)**

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 will take the class in their senior year. **This course fulfills the requirement for a capstone/portfolio completion course with components as specified in Southwestern's Quality Enhancement Plan.** (Fall, Spring)

### **HIST 491 - Selected Topics (1-3 hours)**

Prerequisite: Approval of department chair.

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.

## Political Science Courses

### **POLS 211 - National and Texas Constitutions (3 hours)**

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. (Fall)

### **POLS 291 - Selected Topics (1-3 hours)**

Prerequisite: Approval of department chair.

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.

### **POLS 320 - American International Relations (3 hours)**

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. **This course meets the upper division writing component for senior year English and supports Southwestern Adventist University's Quality Enhancement Plan.** (Also taught as HIST 320.) (Fall, odd years)

### **POLS 360 - American National Government (3 hours)**

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. (Offered periodically)

### **POLS 364 - American Constitutional Development (3 hours)**

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. (Offered periodically)

### **POLS 425 - Executive Leadership (3 hours)**

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. **This course meets the upper division writing component for senior year English and supports Southwestern's Quality Enhancement Plan.** (Offered periodically)

### **POLS 491 - Selected Topics (1-3 hours)**

Prerequisite: Approval of department chair.

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.

## **Geography Courses**

### **GEOG 291 - Selected Topics (1-3 hours)**

Prerequisite: Approval of department chair.

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.

### **GEOG 312 - Historical and Political Geography (3 hours)**

This course considers the interaction between world cultures, environments, and geographic regions to explain patterns of human history and political development. (Also taught as HIST 312.) (Spring, odd years)

## **Sociology Course**

### **SOCI 111 - Introduction to Sociology (3 hours)**

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. (Spring)



# Honors Program

## Faculty/Staff

Andrew Woolley, 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 1050 (or a minimum ACT composite score of 24 plus) are invited to apply for admission to the Honors Program. Currently enrolled SWAU students and transfer students with a GPA of at least 3.4 on all their college courses 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:

1. File an application form with the Honors Committee.
2. Complete 9 hours from the following: HNRS 104, HNRS 204 or 206, HNRS 275, HNRS 375, HNRS 304, HNRS 404
3. Complete 3 hours of HNRS 250 and/or 450.
4. Complete 3 hours of HNRS 480.
5. Complete 1 hour of HNRS 481
6. The Honors Committee will vote the student an Honors Graduate upon satisfactory completion of all requirements.

## Courses

### **HNRS 104 - Human Communication (3 hours)**

This course emphasizes the theory and technique of effective oral communication through public speaking, group discussion, and oral interpretation. The class satisfies general education requirements for communication. Students taking this course should not take COMM 111, Fundamentals of Speech. (Fall)

## Honors Program

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### **HNRS 204 - Advanced American History 1866-Present (3 hours)**

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. 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. (Spring)

### **HNRS 206 - Advanced Western Civilization, early times to 1500 (3 hours)**

A study of key issues, events, and transformations that form the basis for pre-modern western civilization and established the foundations for early modern and modern western history, including the Agricultural Revolution, the development of Hebrew monotheism, classical Greek social ideas, the rise and fall of the Roman empire, and medieval Europe. Students taking this course should not take HIST 211, History of Western Civilization. (Fall)

### **HNRS 250, 450 - Honors Seminar (1 hour)**

Prerequisite: Permission of the Honors Committee.

Courses specifically designed for the Honors Program covering a wide range of interests. Topic for the semester chosen by the faculty member in charge. (Fall, Spring)

### **HNRS 275 - Honors Study Tour (1-3 hours)**

Prerequisite: Permission of the Honors Committee.

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.

### **HNRS 291 - Selected Topics (1-3 hours)**

Prerequisite: Approval by the Honors Program Director

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.

### **HNRS 375 - Honors Study Tour (1-3 hours)**

Prerequisite: Permission of the Honors Committee.

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.

### **HNRS 404 - The Bible and Human Understanding (3 hours)**

This course explores Biblical approaches to the human search for our relationship to self, society, nature, and God. The class satisfies general education requirements for a Bible-content class. (Spring)



**HNRS 480 - Honors Thesis (1-3 hours)**

Prerequisite: Permission of the Honors Committee and an acceptable thesis proposal.

The student will work with a faculty advisor on a scholarly work of mutual interest. This course is open to Honors Students only. The course may be repeated for a total of 5 hours; 3 hours are required for Honors graduation. (Fall, Spring)

**HNRS 481 - Honors Thesis Forum (1 hour)**

Co-requisite: HNRS 480.

The student will submit the Honors thesis in publishable form and present it in an open forum. (Fall, Spring)

**HNRS 491 - Selected Topics (1-3 hours)**

Prerequisite: Approval by the Honors Program Director

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.



## Faculty/Staff

Vesa Naukkarinen, Chair; Rodney W. Bussey, Chad Hutchinson

Adjunct: Tyler Bray, Michael England, Janet Goodman, Kim Hopps, Bev Mendenhall, Kent Tucker

## Aims of the Department

The Department of Kinesiology provides classes and support for Physical Education, Wellness and Exercise Science majors as well as minors in Physical Education, Wellness, 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 Department of Kinesiology through the management of an intramural and club sports program and the operation of a fitness/recreation center that are available to all students and faculty 16 hours a day.

Students may elect courses which 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 Wellness prepares the student to become a certified personal trainer and find a career in the hospital, corporate or private fitness industry. All of the majors prepare students to enter graduate school.

## Programs

- B.S. Exercise Science
- B.S. Physical Education
- B.S. Wellness
- B.S. Business and Kinesiology (Composite Major)
- A.S. Wellness Teaching Area - All Level Certification
- Minors in Coaching, Physical Education, and Wellness

## Exercise Science, B.S.

KINA 115	Strength Training.....	1
KINA 415	Advanced Strength Training.....	1
KINT 110	Fundamentals of Kinesiology.....	3
KINT 111	Health and Wellness.....	3
KINT 216	Nutrition.....	2
KINT 260	First Aid, CPR, and AED Training*.....	2
KINT 201	Introduction to Kinesiology Research.....	1
KINT 241	Care and Prevention of Athletic Injuries.....	3
KINT 310	Motor Learning.....	3
KINT 321	Exercise Physiology.....	3
KINT 331	Biomechanics.....	3
KINT 352	ACSM Certification.....	3
KINT 354	Certified Strength & Conditioning Specialist.....	3

## Kinesiology

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KINT 452	Advanced Fitness Assessment.....	3
KINT 460	Applied Social Research Methods.....	3
KINT 480	Exercise Science Internship.....	6
KINT 490	Senior Seminar.....	2
<b>Subtotal:</b>		<b>45</b>

### Required Cognates:

BIOL 101, 102	Anatomy & Physiology.....	8
CHEM 111	General Chemistry.....	4
CHEM 112	General Chemistry.....	4
MATH 121*	Precalculus.....	3
MATH 241**	Intro to Probability and Statistics.....	3
PSYC 212	General Psychology.....	3
PSYC 220	Human Growth & Development.....	3
PHYS 121	General Physics.....	4
<b>Total:</b>		<b>77</b>

\*SAT mathematics score of at least 500 or an ACT mathematics score of at least 21 is prerequisite for this class. \*\*SAT mathematics score of at least 500 or an ACT mathematics score of at least 21, or MATH 011 with a grade of A– or higher, or MATH 012 with a grade of C– or higher.

### Physical Education, B.S.

KINA 131	Beginning Swimming <i>or</i> .....	
KINA 133	Intermediate Swimming <i>or</i> .....	
KINA 335	Advanced Swimming.....	1
KINT 110	Fundamentals of Kinesiology.....	3
KINT 111	Health & Wellness.....	3
KINT 131	Officiating I.....	3
KINT 132	Officiating II.....	3
KINT 201	Introduction to Kinesiology Research.....	1
KINT 231	Professional Activities I.....	3
KINT 232	Professional Activities II.....	3
KINT 233	Professional Activities III.....	3
KINT 241	Care and Prevention of Athletic Injuries.....	3
KINT 243	Health & PE in the Elementary School.....	3
KINT 310	Motor Learning.....	3
KINT 321	Exercise Physiology.....	3
KINT 331	Biomechanics.....	3
KINT 351	Coaching.....	3
KINT 354	Certified Strength & Conditioning Specialist.....	3
KINT 420	Adapted Physical Education.....	3
KINT 431	Secondary Methods in Physical Education.....	3
KINT 450	Administration of Kinesiology.....	3
KINT 490	Senior Seminar.....	2
<b>Subtotal:</b>		<b>55</b>

\*Requires additional fee.

**Required Cognates:**

BIOL 101, 102	Anatomy and Physiology.....	8
RLGN212	Basic Christian Ethics.....	3
<b>Total</b>		<b>66</b>

The degrees in Exercise Science and Physical Education are composite majors, therefore no minors are required.

**Wellness, B.S.**

KINA 111	Physical Fitness.....	1
KINA 112	Aerobics <i>or</i> .....	
KINA 312	Advanced Aerobics.....	1
KINA 115	Strength Training.....	1
KINA 116	Fitness Walking.....	1
KINA 333	Water Aerobics <i>or</i> .....	
KINA 334	Lifeguard Training.....	1
KINA 415	Advanced Strength Training.....	1
KINT 110	Fundamentals of Kinesiology.....	3
KINT 111	Health and Wellness.....	3
KINT 201	Introduction to Kinesiology Research.....	1
KINT 216	Nutrition.....	2
KINT 241	Care and Prevention of Athletic Injuries.....	3
KINT 260	First Aid, CPR & AED Training*.....	2
KINT 280	Health Fitness Internship.....	3
KINT 320	Physical Assessment Internship.....	3
KINT 321	Exercise Physiology.....	3
KINT 331	Biomechanics.....	3
KINT 352	ACSM Certification.....	3
KINT 354	Certified Strength & Conditioning Specialist.....	3
KINT 450	Administration of Kinesiology.....	3
KINT 452	Advanced Fitness Assessment.....	3
KINT 490	Senior Seminar.....	2
<b>Subtotal:</b>		<b>46</b>

\*Requires additional fee.

**Required Cognates:**

ACCT 211	Accounting Principles I.....	4
BIOL 101, 102	Anatomy and Physiology.....	8
COMM 111	Fundamentals of Speech.....	3
COMM 222	Media Writing <i>or</i> .....	
CSIS 303	E-Commerce and Website Design.....	3
PSYC 220	Human Growth and Development.....	3
<b>Total:</b>		<b>67</b>

**Wellness, A.S.**

KINA 111	Physical Fitness.....	1
KINA 112	Aerobics <i>or</i> .....	
KINA 312	Advanced Aerobics.....	1
KINA 115	Strength Training <i>or</i> .....	

## Kinesiology

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KINA 415	Advanced Strength Training.....	1
KINA 116	Fitness Walking.....	1
KINA 333	Water Aerobics <i>or</i>	
KINA 334	Lifeguard Training.....	1
KINT 111	Health & Wellness.....	3
KINT 151	Introduction to Fitness Management.....	3
KINT 216	Nutrition.....	2
KINT 260	First Aid, CPR & AED Training.....	2
KINT 280	Health Fitness Internship <i>or</i>	
KINT 320	Physical Assessment Internship.....	3
KINT 241	Care and Prevention of Athletic Injuries.....	3
KINT 352	ACSM Certification.....	3
<b>Total:</b>		<b>24</b>

### Required Cognate:

BIOL 101	Anatomy & Physiology.....	4
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## Composite Major in Business and Kinesiology

### Business Concentration:

ACCT 211	Accounting Principles I.....	3
BUAD 203	Research in Business.....	1
BUAD 211	Profile of Entrepreneurship.....	3
BUAD 301	Principles of Management.....	3
BUAD 302	Advanced Software Applications.....	3
BUAD 311	Business Law.....	3
BUAD 317	International Business Communication.....	3
BUAD 321	Business Finance.....	3
BUAD 472	Business Policies and Strategies.....	3
BUAD 496	Senior Business Seminar.....	1
ECON 211	Macroeconomics <i>or</i>	
ECON 212	Microeconomics.....	3
MKTG 343	Principle of Marketing.....	3
	Business Electives.....	9
<b>Subtotal:</b>		<b>41</b>

### Cognates:

MATH 241	Intro to Probability & Statistics.....	3
COMM 115	Discussion Techniques.....	3
<b>Subtotal:</b>		<b>47</b>

### Kinesiology Concentration:

KINT 111	Health & Wellness.....	3
KINA 115	Strength Training.....	1
KINT 321	Exercise Physiology.....	3
KINT 331	Biomechanics.....	3
KINT 241	Care & Prevention of Athletic Injuries.....	3
KINT 110	Fundamentals of Kinesiology.....	3
KINT 351	Coaching.....	3
KINT 201	Kinesiology Research.....	1

KINT 490	Senior Kinesiology Seminar.....	2
KINT 354	Certified Strength & Conditioning Specialist.....	3
KINT 352	American College of Sports Medicine.....	3
KINT 450	Administration of Kinesiology.....	3
KINT 452	Advanced Fitness Assessment.....	3
KINT 485	Sport Management Internship.....	3

**Subtotal: 37**

## Cognates:

BIOL 101	Anatomy & Physiology.....	4
BIOL 102	Anatomy & Physiology.....	4

**Total: 95**

## 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.

## Coaching Minor

KINA 115	Strength Training.....	1
KINT 131	Officiating and Recreational Sports I <i>or</i> .....	
KINT 132	Officiating and Recreational Sports II.....	3
KINT 231	Professional Activities I <i>or</i> .....	
KINT 232	Professional Activities II <i>or</i> .....	
KINT 233	Professional Activities III.....	3
KINT 241	Care and Prevention of Athletic Injuries.....	3
KINT 351	Coaching.....	3
KINT 354	Certified Strength & Conditioning Specialist*.....	3
	Choose two different P.E. activity courses:.....	2

**Total: 18**

## Required Cognates:

BIOL 101	Anatomy & Physiology.....	4
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## Physical Education Minor

KINT 115	Strength Training.....	1
KINT 110	Fundamentals of Kinesiology.....	3
KINT 131	Officiating and Recreational Sports I <i>or</i> .....	
KINT 132	Officiating and Recreational Sports II.....	3
<i>choose two</i>	<i>of the three Professional Activities</i> .....	
KINT 231	Professional Activities I <i>or</i> .....	
KINT 232	Professional Activities II.....	
KINT 233	Professional Activities III.....	6
KINT 241	Care and Prevention of Athletic Injuries.....	3
KINT 431	Secondary Methods in Physical Education.....	3

**Total: 19**

Kinesiology

\*Requires additional fee.

Required Cognates:

BIOL 101	Anatomy & Physiology.....	4
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Wellness Minor

KINA 112	Aerobics <i>or</i> .....	
KINA 312	Advanced Aerobics.....	1
KINA 115	Strength Training <i>or</i> .....	
KINA 415	Advanced Strength Training.....	1
KINA 116	Fitness Walking.....	1
KINA 333	Water Aerobics <i>or</i>	
KINA 334	Lifeguard Training.....	1
KINT 111	Health and Wellness.....	3
KINT 216	Nutrition.....	2
KINT 241	Care and Prevention of Athletic Injuries.....	3
KINT 352	ACSM Certification.....	3
KINT 450	Administration of Kinesiology.....	3

Total: 18

Required Cognate:

BIOL 101	Anatomy & Physiology.....	4
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Courses

KINT 110 - Fundamentals of Kinesiology (3 hours)

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. (Fall, odd years)

KINT 111 - Health and Wellness (3 hours)

A study of wellness as it relates to personal fitness, nutrition, stress management, substance abuse, communicable diseases, cancer, heart disease, environmental health, and SDA health heritage. Each student participates in a 15 week personal fitness program in which they track their body composition, strength, and oxygen uptake. Lecture and lab. Cannot be taken with KINA 111 Physical Fitness. (Fall, Spring, Summer)

KINT 131 - Officiating & Recreational Sports I (3 hours)

Theory and practice of officiating soccer, basketball and floor hockey, including rules, interpretation of rules, officiating techniques and examinations. Part of the class requirements are to officiate college intramurals and to assist in the administration of the recreational sports program. Requires additional fee. (Spring, even years)

KINT 132 - Officiating & Recreational Sports II (3 hours)

Theory and practice of officiating flagball, volleyball, and softball including rules, interpretation of rules, officiating techniques and examinations. Part of the class requirements are to officiate college intramurals and to assist in the administration of the recreational sports program. Requires additional fee. (Fall, odd years)



### **KINT 201 - Introduction to Kinesiology Research (1 hour)**

Prerequisite: ENGL 121

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. **This course fulfills the requirement for UNIV 201: Research in an Academic Discipline as specified in Southwestern's Quality Enhancement Plan.** (Spring)

### **KINT 216 - Nutrition (2 hours)**

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. (Fall, Spring)

### **KINT 231 - Professional Activities I (3 hours)**

Development of skills and teaching techniques of soccer, basketball, badminton and floor hockey. (Spring, odd years)

### **KINT 232 - Professional Activities II (3 hours)**

Development of skills and teaching techniques of flagball, volleyball, softball and tennis. (Fall, even years)

### **KINT 233 - Professional Activities III (3 hours)**

Development of skills and teaching techniques of track and field, and acrosports.

### **KINT 241 - Care and Prevention of Athletic Injuries (3 hours)**

Prerequisite: BIOL 101

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. (Spring)

### **KINT 243 - Health and Physical Education in the Elementary School (3 hours)**

The course provides the student with an extensive repertoire of teaching techniques in the elementary physical education classroom. Emphasis is placed on health-related fitness, skill development, special events, and game development. 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.) (Fall)

### **KINT 260 - First Aid, CPR, and AED Training (2 hours)**

This course will give students the opportunity to be certified by the American Red Cross in First Aid, CPR and AED. Requires additional fee. (Fall, even years)

### **KINT 280 - Health Fitness Internship (3 hours)**

Prerequisite: 2.5 GPA in major courses, completion of KINT 111 Health and Wellness, KINT 352 ACSM and approval of department chair.

This course provides on-the-job training for students at an approved fitness center. Rotation of duties is planned so the student will be exposed to a variety of experiences, including, but not limited to: monitoring the front desk, assisting in the weight room, class observations, child care, pool maintenance and general supervision. Forty-five hours of work are required for each hour of credit earned. Pass/fail course. (Fall, Spring, Summer)

### **KINT 291 - Selected Topics (1-3 hours)**

This course is reserved for physically disabled students who are unable to participate in other activity classes.

### **KINT 310 - Motor Learning (3 hours)**

Prerequisite: BIOL 101

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. This course fulfills the requirement for an upper-division course with components as specified in Southwestern's Quality Enhancement Plan. (Fall, odd years)

### **KINT 320 - Physical Assessment Internship (3 hours)**

Prerequisite: 2.5 GPA in major field, junior standing, completion of KINT 111 Health and Wellness, KINT 352 ACSM and approval of department chair.

Students will work with the Huguley Assessment laboratory and have the opportunity to observe or assist with 12 lead EKG's maximal and sub-maximal stress testing. Students will work forty-five hours for each hour of credit earned. Pass/fail course. (Fall, Spring, Summer)

### **KINT 321 - Exercise Physiology (3 hours)**

Prerequisite: BIOL 101

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. (Fall, even years)

### **KINT 331 - Biomechanics (3 hours)**

Prerequisite: BIOL 101

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. **This course fulfills the requirement for an upper-division course with components as specified in Southwestern's Quality Enhancement Plan.** (Spring, even years)

### **KINT 351 - Coaching (3 hours)**

Prerequisite: KINT 131 or 132, 231 or 232

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 fulfills the requirement for an upper-division course with components as specified in Southwestern's Quality Enhancement Plan.** Requires additional fee. (Spring, odd years)

### **KINT 352 - ACSM Health & Fitness Instructor (3 hours)**

Prerequisite: KINT 321, 331

Covers an in-depth knowledge of exercise physiology, health appraisal techniques, risk factor identification, sub-maximal exercise testing and exercise prescriptions for various populations. Class includes laboratory activities. Certification requires additional fee. (Fall, odd years)

### **KINT 354 - Certified Strength & Conditioning Specialist (3 hours)**

Prerequisite: KINT 321, 331.

The study of safe and effective strength training, lifting, and spotting techniques. In depth study of anatomy and kinesiology affecting muscle strength and endurance. Certification requires additional fee. (Spring, odd years)

**KINT 420 - Adapted Physical Education (3 hours)**

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. (Fall, even years)

**KINT 431 - Secondary Methods (3 hours)**

Prerequisite: KINT 231 and 232.

The study of methods and techniques of teaching physical education in the secondary school, includes individual as well as group activities; students are required to observe and demonstrate in class. Should be taken the senior year. (Fall, even years)

**KINT 450 - Administration of Kinesiology (3 hours)**

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. (Fall, odd years)

**KINT 452 - Advanced Fitness Assessment (3 hours)**

Includes an in-depth study of electrophysiology of the heart, normal 12 lead EKG tracing, and identification of abnormalities due to medications and heart disease. Students will have the opportunity to perform sub-maximum and maximum stress tests used to identify heart disease and estimated VO<sub>2</sub>. (Spring, even years)

**KINT 460 - Applied Social Research Methods (3 hours)**

Prerequisite: MATH 241.

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.) (Fall)

**KINT 480 - Exercise Science Internship (3-6 hours)**

Prerequisite: Approval by department chair.

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. (Fall, Spring, Summer)

**KINT 485 - Sports Management Internship (3 hours)**

Prerequisite: Senior standing and approval by department chair.

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. (Fall, Spring, Summer)

## Kinesiology

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### **KINT 490 - Senior Seminar (Capstone/Portfolio) (2 hours)**

This is a capstone course where students will study and discuss current issues and concepts within the Physical Education, Exercise Science and Wellness professions. In addition, the students will prepare for employment in the profession. The class also prepares students for the major exit exam. **This course fulfills the requirement for a capstone/portfolio completion course with components as specified in Southwestern's Quality Enhancement Plan.** (Spring)

### **KINT 491 - Selected Topics (1-3 hours)**

Prerequisite: Approval by department chair.

Open to advanced Kinesiology students for research or special project. Content and method of study must be arranged prior to registration. May be repeated for a total of 3 credits.

## **Kinesiology Activity Courses**

### **KINA 111 - Physical Fitness (1 hour)**

An introduction to personal fitness and application of training principles. Includes flexibility, strength, 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. (Fall, Spring)

### **KINA 112 - Aerobics (1 hour)**

An introduction to basic floor movements, calisthenics, and step aerobics. Students are also introduced to choreography. (Fall, Spring)

### **KINA 115 - Strength Training (1 hour)**

An introduction to the development of muscular strength through the use of weighted resistance. Safety procedures are stressed. (Fall, Spring odd years)

### **KINA 116 - Fitness Walking (1 hour)**

An introduction to cardiovascular fitness through walking. (Fall)

### **KINA 122 - Futsal (Indoor Soccer) (1 hour)**

Students are taught the basic skills in kicking, passing, and goal keeping. Offensive and defensive strategies are introduced. Rules and scorekeeping are taught. (Fall, odd years)

### **KINA 125 - Volleyball (1 hour)**

Students are taught basic skills in passing, setting, serving, and spiking. Offensive and defensive strategies are introduced. (Spring)

### **KINA 131 - Beginning Swimming (1 hour)**

Students are introduced to basic aquatic safety, floating, freestyle, and elementary back stroke. (Fall)

### **KINA 133 - Intermediate Swimming (1 hour)**

Students are taught elementary rescue and intermediate skills in freestyle, back crawl, and side stroke. The butterfly stroke is introduced. (Fall)

**KINA 141 - Badminton (1 hour)**

Students will develop skill 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. (Fall, Spring)

**KINA 142 - Beginning Tennis (1 hour)**

Students develop skill in the basic strokes (forehand, backhand, serve, volley, and lob). They are also introduced to strategy of play. (Fall)

**KINA 145 - Beginning Racquetball (1 hour)**

An introduction to five basic serves, forehand, backhand, strokes, rules, sportsmanship and strategy of the game. (Fall, Spring)

**KINA 229 - Gymnastics Team (1 Hour)**

This class is a touring, witnessing acroport 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. (Fall, Spring)

**KINA 237 - Canoeing (1 hour)**

An introduction to basic skills and safety procedures of recreational canoeing. (Offered periodically)

**KINA 240 - Backpacking (1 hour)**

This course enables students to participate in outdoor recreation and provide experience for those interested in preparing for different phases of camping life, outdoor living, backpacking, and group activities. (Spring)

**KINA 241 - Terra Caching (1 hour)**

This course develops fundamental skills in GPS navigation, knowledge of basic hiking skills, and computer technology. Set in a recreational environment this course promotes physical activity. (Fall)

**KINA 243 - Snow Boarding (1 hour)**

An introduction to basic skills of snow boarding. Mountain trip during spring break. Requires additional fee. (Spring)

**KINA 245 - Snow Skiing (1 hour)**

An introduction to basic skills of downhill snow skiing. Mountain trip during spring break. Requires additional fee. (Spring)

**KINA 291 - Selected Topics (1 hour)**

Prerequisite: Introductory course or approval of instructor. A course designed for students who must complete a class independently. Must have Department of Kinesiology chair approval.

**KINA 312 - Advanced Aerobics (1 hour)**

Prerequisite: KINA 112 High intensity aerobic class. May include step aerobics, kick boxing, or other popular routines. (Spring)

**KINA 315 - Intermediate Basketball (1 hour)**

Development of skills in shooting, passing, executing plays and understanding offensive and defensive strategies. (Spring, odd years)

**KINA 333 - Water Aerobics (1 hour)**

An introduction to basic water movements for strength and flexibility. (Fall)

**KINA 334 - Lifeguard Training (1 hour)**

Certified training in lifeguard techniques. Requires a recording fee. (Offered periodically)

**KINA 335 - Advanced Swimming (1 hour)**

Prerequisite: Approval by department chair.

Opportunity is given for students to progress to advanced levels of swimming in backstroke, freestyle, breaststroke, and butterfly stroke. (Offered periodically)

**KINA 342 - Intermediate Tennis (1 hour)**

Prerequisite: Introductory course or approval of instructor.

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. (Offered periodically)

**KINA 343 - Intermediate Racquetball (1 hour)**

Prerequisite: Introductory course or approval of instructor.

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. (Spring, odd years)

**KINA 344 - Golf (1 hour)**

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. (Fall, even years)

**KINA 346 - Inline Hockey (1 hour)**

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. (Spring)

**KINA 415 - Advanced Strength Training (1 hour)**

Prerequisite: KINA 115 or approval by Instructor.

Students enhance their strength training routines with advanced methods of resistance training. Students are introduced to new training techniques and sport-specific routines. (Spring, even years)

**KINA 429 - Gymnastics Team (1 hour)**

This class is a touring, witnessing acroport 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. (Fall, Spring)

**KINA 430 - Golf Team (1 hour)**

Prerequisite: Approval by Instructor.

Students must be prepared for match play and develop course management skills. (Offered periodically)

**KINA 491 - Selected Topics (1 hour)**

Prerequisite: Approval by department chair. A course designed for students with intermediate skill level.





# Mathematics

## Faculty/Staff

Murray Cox, Chair.  
Paulos Berhane, Lawrence Turner  
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.

## Programs

- B.A. Mathematics - 33 hours (21 u.d.)
- B.S. Mathematics - 36 hours (24 u.d.)
- B.S. Mathematical Physics - 52 hours (30 u.d.)
- Minor in Mathematics - 18 hours (6 u.d.)
- B.S. Mathematics - Secondary Certification - 36 hours (21 u.d.)
- Minor in Mathematics - Secondary Certification - 26 hours (12 u.d.)

### Mathematics, B.A.

MATH 181	Calculus I.....	4
MATH 282	Calculus II.....	4
MATH 283	Calculus III.....	4
MATH 321	Differential Equations.....	3
MATH 341	Geometry.....	3
MATH 361	Introduction to Linear Algebra.....	3
MATH 431	Modern Algebra.....	3
MATH 471	Advanced Calculus.....	3
MATH	Electives (upper division).....	6
Total (21 upper division)		33

Required cognates: MATH 201, MATH 485

### Mathematics, B.S.

MATH 181	Calculus I.....	4
MATH 282	Calculus II.....	4
MATH 283	Calculus III.....	4
MATH 321	Differential Equations.....	3
MATH 341	Geometry.....	3
MATH 361	Introduction to Linear Algebra.....	3
MATH 431	Modern Algebra.....	3
MATH 461	Number Theory.....	3
MATH 471	Advanced Calculus.....	3

## Mathematics

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MATH	Electives (upper division).....	6
<b>Total: (24 upper division)</b>		<b>36</b>

Required cognate: MATH 201, MATH 485, CSIS 110 or equivalent.

### Mathematics Minor

MATH 181	Calculus I.....	4
MATH 282	Calculus II.....	4
MATH 283	Calculus III.....	4
MATH	Electives (upper division).....	6
<b>Total: (6 upper division)</b>		<b>18</b>

### Mathematical Physics, B.S.

MATH 181	Calculus I.....	4
MATH 282	Calculus II.....	4
MATH 283	Calculus III.....	4
MATH 321	Differential Equations.....	3
MATH 361	Introduction to Linear Algebra.....	3
MATH 381	Complex Variables.....	3
MATH 411	Numerical Analysis.....	3
MATH 431	Modern Algebra <i>or</i>	
MATH 471	Advanced Calculus.....	3
MATH 455	Probability Theory.....	3
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
PHYS 311	Modern Physics.....	3
PHYS 322	Classical Mechanics.....	3
PHYS 351	Electromagnetic Fields.....	3
PHYS 411	Quantum Mechanics.....	3
<b>Total: (30 upper division)</b>		<b>52</b>

Required cognates: MATH 201 or CHEM 201; MATH 485; CHEM 111, 112; and CSIS 110 or equivalent.

### Teaching Certification Program

The following mathematics major and minor 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.*

#### Mathematics - Secondary Teaching Area - B.S.

MATH 181	Calculus I.....	4
MATH 241	Introduction to Probability and Statistics.....	3
MATH 282	Calculus II.....	4
MATH 283	Calculus III.....	4
MATH 321	Differential Equations.....	3
MATH 341	Geometry.....	3
MATH 361	Introduction to Linear Algebra.....	3

MATH 431	Modern Algebra.....	3
MATH	Electives (upper division).....	9
<b>Total: (21 upper division)</b>		<b>36</b>

Required cognates: MATH 201, MATH 485

**Mathematics Minor - Secondary Teaching Area Option II**

MATH 121	Precalculus.....	3
MATH 181	Calculus I.....	4
MATH 241	Introduction to Probability and Statistics.....	3
MATH 282	Calculus II.....	4
MATH 341	Geometry.....	3
MATH 361	Introduction to Linear Algebra.....	3
MATH	Electives (upper division).....	6
<b>Total: (12 upper division)</b>		<b>26</b>

## Mathematics Foundation Courses

It is recognized that attempting a mathematics course for which a student is not prepared can be challenging and frustrating. In order that the mathematics experience be as smooth and gentle as possible, the department offers two review courses, MATH 011 and MATH 012 to provide a foundation for college-level mathematics courses. These are available for any student who needs to take advantage of the additional time and exposure and build a solid basis in algebra. Students whose SAT or ACT mathematics score recommends they register for MATH 110 or a higher-level mathematics course are not permitted to register for either MATH 011 or MATH 012 except by the permission of the department.

## Courses

### **MATH 011 - Introduction to Algebra (3 hours)**

The course begins a two-semester review of the arithmetic and algebra of the real numbers. Topics include problem solving, sets, arithmetic operations on integers, rational numbers, and real numbers, variable expressions, rectangular coordinate system and graphs, relations and functions, properties of functions, solution techniques and applications of first-degree equations, absolute value, linear functions, systems of linear equations, applications and solution methods for simultaneous linear equations.

This review course is available only for those students who have a need to review elementary algebra. It schedules extra help and instruction and progresses through the material in a paced manner. The course meets five days a week. **This course does not apply toward general education or graduation requirements.** (Fall, Spring)

### **MATH 012 - Intermediate Algebra (3 hours)**

Prerequisite: MATH 011 with a grade of a C– or higher.

A continuation of the review of algebra begun in MATH 011. Topics include rational expressions and rational equations, proportions, radical expressions and rational exponents, the pythagorean theorem, operations on radical expressions, radical functions, introduction to complex numbers, quadratic equations, solution methods for quadratic equations, and properties of quadratic functions.

This review course is available only for those students who have a need to prepare for a further mathematics course. It schedules extra help and instruction and progresses through the material in a paced manner. This course meets five days a week. **This course does not apply toward general education or graduation requirements.** (Fall, Spring)

### **MATH 110 - College Algebra (3 hours)**

Prerequisite: SAT mathematics score of at least 500 or an ACT mathematics score of at least 21, or MATH 011 with a grade of A– or higher, or MATH 012 with a grade of C– or higher.

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. (Fall, Spring)

### **MATH 121 - Precalculus (3 hours)**

Prerequisite: SAT mathematics score of at least 500 or an ACT mathematics score of at least 21 and a high school Algebra II with a grade of at least a B, or MATH 110, with a grade of C– or higher, or permission of the department.

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. (Fall, Spring)

### **MATH 181 - Calculus I (4 hours)**

Prerequisite: MATH 121 with a grade of C– or higher, or a high school precalculus course and permission of the instructor.

A study of algebraic and transcendental functions of one variable, limits, continuity, differentiation, integration, and applications of derivatives and integrals. (Spring)

### **MATH 201 - Research Methods in Mathematics (1 hour)**

Prerequisite: ENGL 121, MATH 181

An introduction to the library research skills used in mathematics. The use of primary and secondary sources will be discussed as well as publication styles. Students will be exposed to the mathematical software used in mathematics research, and will engage in activities to sharpen critical thinking. In this course, majors in mathematics begin the process of senior portfolio development. **This course fulfills the requirement for UNIV 201; Research in an Academic Discipline, as specified in Southwestern's Quality Enhancement Plan.** (Spring)

**MATH 241 - Introduction to Probability and Statistics (3 hours)**

Prerequisite: SAT mathematics score of at least 500 or an ACT mathematics score of at least 21 and high school Algebra II with a grade of at least a B or MATH 012 with a grade of A– or higher, or MATH 110 with a grade of C– or higher, or permission of the department.

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,  $\chi^2$  distribution, analysis of variance, correlation, and linear regression. (Fall, Spring)

**MATH 282 - Calculus II (4 hours)**

Prerequisite: MATH 181 with a grade of C– or higher.

A study of the calculus of transcendental functions, introduction to differential equations, applications of integration, techniques of integration, and infinite series. (Fall)

**MATH 283 - Calculus III (4 hours)**

Prerequisite: MATH 282 with a grade of C– or higher.

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. (Spring)

**MATH 291 - Selected Topics (1 hour)**

Prerequisite: Approval by the department chair.

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.

**MATH 321 - Differential Equations (3 hours)**

Prerequisite: MATH 283. This is a study of ordinary differential equations with emphasis on the analytic methods for solving them. (Fall, even years)

**MATH 341 - Geometry (3 hours)**

Prerequisite: MATH 282. This course is a study of Euclidean and non-Euclidean geometry. (Spring, even years)

**MATH 361 - Introduction to Linear Algebra (3 hours)**

Prerequisite or corequisite: MATH 283. An introduction to vector spaces and matrix theory over the field of real numbers. (Spring, odd years)

**MATH 381 - Complex Variables (3 hours)**

Prerequisite: MATH 283. This course is a study of analytic functions, power series, calculus of residues, and conformal mappings. (Spring, odd years)

**MATH 411 - Numerical Analysis with Application (3 hours)**

Prerequisite: MATH 283 and knowledge of a computer programming language.

This is a course in numerical methods for solving mathematical problems. The writing of computer programs for solving problems is a part of the course. (Spring, even years)

**MATH 431 - Modern Algebra (3 hours)**

Prerequisite: MATH 361. A study of the abstract systems: groups, rings, fields, and integral domains. (Fall, odd years)

### **MATH 455 - Probability Theory (3 hours)**

Prerequisite: MATH 282.

A study of the basic ideas of probability theory, discrete and continuous random variables, and their distributions. **This course fulfills the requirement for an upper-division class with QEP components as specified in Southwestern's Quality Enhancement Plan.** (Fall, odd years)

### **MATH 461 - Number Theory (3 hours)**

Prerequisite: MATH 282.

A study of topics including Diophantine equations, congruences, prime numbers, and applications. Emphasis is placed on proving theorems. **This course fulfills the requirement for an upper-division course with components as specified in Southwestern's Quality Enhancement Plan.** (Fall, even years)

### **MATH 471 - Advanced Calculus (3 hours)**

Prerequisite: MATH 283.

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. (Spring, odd years)

### **MATH 485 - Portfolio (1 hour)**

**This course fulfills the requirement for a capstone/portfolio completion course with components as specified in Southwestern's Quality Enhancement Plan.** (Spring)

### **MATH 491 - Selected Topics (1-3 hours)**

Prerequisite: Approval by the department chair.

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.

# Modern Languages

## Faculty/Staff

R. Steven Jones, Chair; Roberto Valencia

## Aims of the Department

The Spanish language and Hispanic culture have rapidly gained importance and influence during the past two decades. More than 400 million people in twenty-five countries speak Spanish, and it has become the second most prevalent language in the United States.

The growing preeminence of Spanish makes it an ideal complement to any liberal arts education. Indeed, Spanish, or another modern language, is a degree component of all B.A. programs at Southwestern Adventist University. Spanish opens doors to both personal and professional development, and it is a working language of many international organizations and corporations. Professionals in many different fields including business, theology, medicine, international relations, journalism, and education - use Spanish daily.

Southwestern strongly encourages students to study a foreign language, and Spanish at Southwestern is a great investment in a promising future.

## Program

- B.A. European Civilization
- B.A. Social Science, emphasis on International Affairs
- Minor in Spanish

## Social Science, B.A., emphasis on International Affairs

1. Prerequisite: Intermediate-level language: Spanish, French, German, or Italian.
2. ACA program language study: **9 hours** (14 qu. hours) (At least 3 ud [5 ud qu. hours])
3. Social Science courses at Southwestern: **22 hours**

HIST 112	US History 1865 - Present.....
HIST 212	History of Western Civilization II.....
HIST 201	Historical Methods.....
HIST 312	Historical and Political Geography.....
POLS 320	American International Relations.....
HIST 365	Global Power: America 1917 to Present.....
HIST 424,	SPAN 315 or 317.....
HIST 475	Portfolio Development.....

Students will also complete and present a Senior Thesis.

## European Civilization, B.A.

1. Prerequisite: Intermediate-level language: Spanish, French, German, or Italian.
2. ACA program language study: **18 hours** (27 qu. hours) (At least 6 ud [9 ud qu. hours])
3. Humanities courses at Southwestern: **16 hours**

HIST 201	Historical Methods.....
MUHL 221	Survey of Music.....
ARTS 221	History of Western Art.....

# Modern Languages

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ENGL 451,	452, 453, 454, 455 or 456.....
HIST 364,	414, 424 or 430 or SPAN 315.....
HIST 475	Portfolio Development.....

Students will also complete and present a Senior Thesis.

## Spanish Minor

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.

## Adventist Colleges Abroad

The Modern Language Department offers to both the student majoring in languages and the general University student body the privilege of studying abroad without losing credit or lengthening the course of study. Southwestern is a member of a consortium known as Adventist Colleges Abroad (ACA), and through this consortium the student is able to study a language in the actual homeland of that particular language. The colleges that are affiliated with ACA are Universidad Adventista del Plata, Argentina (academic year only); Seminar Schloss Bogenhofen, Austria; Brazil Adventist University (UNASP), Brazil; Campus Adventiste du Saleve, France; Friendensau Adventist University, Germany (academic year only); Instituto Avventista Villa Aurora, Italy; Escuela Superior de Espanol (ESDES), Spain; Athens Study Center, Greece (Greek and Hebrew, summer program only); Saniku Gakuin College, Japan (Chinese, summer program); Universidad de Montemorelos, Mexico (summer program only); Asia-Pacific International University, Thailand (summer program); Ukrainian Institute of Arts & Sciences, Ukraine (summer program). The ACA *bulletin*, which is available at the Records Office, contains a listing of courses offered on each campus.

## Meeting the Intermediate Language Requirement

Students may meet the requirement for intermediate language by passing a CLEP test at the approved level. There is a fee for CLEP testing and recording.

## Courses

### SPAN 111 - Elementary Spanish I (4 hours)

### SPAN 112 - Elementary Spanish II (4 hours)

The sound and sentence patterns of Spanish are learned through drills, dialogues, readings and models, both live and recorded. 4 Lec 1 Lab.

### SPAN 211 - Intermediate Spanish I (3 hours)

### SPAN 212 - Intermediate Spanish II (3 hours)

Prerequisite: SPAN 112 or demonstrated proficiency. 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. 3 Lec 1 Lab. (SPAN 211 Fall, SPAN 212 Spring)

### SPAN 291 - Selected Topics (1-3 hours)

Prerequisite: Approval by department chair.

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.



**Classes Numbered Above 300**

All classes numbered above 300 are conducted in Spanish. The instructor may require a demonstrated ability in the language before granting permission to enroll.

**SPAN 311 - Spanish Composition and Conversation (3 hours)**

Prerequisite: SPAN 212 or demonstrated proficiency.

The development of confidence in accepted oral and written expression, based on topics of current interest and cultural significance. (Fall)

**SPAN 315 - Spanish Civilization and Culture (3 hours)**

Prerequisite: SPAN 311 or demonstrated proficiency.

A presentation of some of the dominant themes, personalities, and creative achievements in Hispanic history, civilization and culture. (Spring, even years)

**SPAN 317 - Spanish American Civilization (3 hours)**

Prerequisite: SPAN 311 or demonstrated proficiency.

A presentation of some of the dominant themes, personalities, and creative achievements in Latin-American history, civilization, and culture. (Spring, odd years)

**SPAN 411 - Masterpieces of Spanish-American Literature I (3 hours)**

Prerequisite: Three years of college Spanish, including SPAN 311, or permission of the instructor.

A presentation of the history of Spanish-American literature from the discovery of America to Romanticism. (Fall, even years)

**SPAN 412 - Masterpieces of Spanish-American Literature II (3 hours)**

Prerequisite: Three years of college Spanish, including SPAN 311, or permission of instructor.

A presentation of the history of Spanish-American literature from Modernism to contemporary literature. (Spring, odd years)

**SPAN 413 - Masterpieces of Spanish Literature I (3 hours)**

Prerequisite: Three years of college Spanish, including SPAN 311, or permission of the instructor.

A survey of peninsular Spanish literature with selections from the Middle Ages to the Spanish Golden Age. (Fall, odd years)

**SPAN 414 - Masterpieces of Spanish Literature II (3 hours)**

Prerequisite: Three years of college Spanish, including SPAN 311, or permission of the instructor.

A survey of peninsular Spanish literature with selections from the Romanticism to contemporary literature. (Spring, even years)

**SPAN 491 - Selected Topics (1-3 hours)**

Prerequisite: Approval of department chair.

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.



## Faculty/Staff

Jonathan Wall, Chair; John Boyd, Rudyard Dennis

Adjunct: Dorla Aparicio, Mugur Doroftei, Maria Harman, Ana Scarone, Henry Welch

## Aims of The Department: Listen - Learn - Apply

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. A student who does not bring a significant level of talent to singing or playing an instrument may not be successful as a major.

1. A functional piano performance exam will be given to all incoming music majors. This exam includes but is not limited to:
  - a. Technique: scales and arpeggios
  - b. Chord progressions and cadences
  - c. Harmonization of melodies
  - d. Sight reading
  - e. Score reading
  - f. Memorization and performance

If students are unable to pass the exam (which is described fully in the Music Major Handbook), they are required to take piano lessons (MUPF 151) or a new three-semester class piano class starting no later than the second semester in residence. Modification to the piano performance exam can be made in the event of physical handicap.

2. 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.
3. Performance is an important and integral component of the music major program. The incoming music students are strongly recommended to send a recording of their best performing, chosen from standard repertoire lists for advising purposes. All incoming majors will perform in a recital the first week, along with the returning majors.

## 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 major is required to take a major ensemble each semester in residence. The major ensembles are the Wind Symphony 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 major is required to perform in at least one recital per semester.
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 jury which is poorly prepared for can cause the student to be placed on probationary status as a music major. Regular improvement is expected.**
4. **Practice:** The music majors will keep track of their practice time and report it to their teacher at each lesson. The successful majors will **practice ten hours weekly** in their major performance area. Talent is not a substitute for effort.
5. **Functional piano:** A performance exam will be given to all music majors. If students are unable to pass the exam, they are required to take piano lessons (MUPF 151) **or a new three-semester class piano class** starting no later than the second semester in residence. **They must pass the piano proficiency test before attaining senior status.**
6. **First year:** The freshman year is a time when the music majors and the music faculty learn if they are suited for the program. A **progress letter will be given to the student at the end of each semester** with a copy going into the student's file. The students will be **notified in the second letter if they receive official acceptance into the music program.**
7. **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. Thus, **the status of being a music major is a privilege, not a right.** 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. If students are encouraged to change majors, it should be viewed as wise, money saving advice, rather than punitive action.
8. **Senior recital:** **All music majors will perform in 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. The purpose is to determine the readiness for the public senior recital.
9. **Recital attendance:** **Music majors will attend all faculty, general student, and senior recitals.** These dates will all be posted by the second week of the semester. Such recitals are an important part of the student's education, and failure to participate can be reflected in the student's performance grade.
10. **Off-campus recitals:** The music major should plan to **attend at least two approved off-campus recitals each semester.** The student's performance professor can help determine what is approved. Field trips may be taken to metroplex recitals with transportation provided. It is not wise to exist in a vacuum and *seeing the level of the 'competition' is very important and motivating.*
11. **Private lessons:** The music major will take lessons from one of the teachers at Southwestern Adventist University or one provided by the school. **If 'outside' lessons are taken without**

permission from the music faculty, this will be considered grounds for terminating participation in the music major.

## Programs

- B.A. Music
- B.S. Music
- Music minor
- Teaching Area - Secondary Certification

## Music, B.A.

The Bachelor of Arts in music is a nonprofessional degree designed to give the student a broad understanding of the musical heritage of man.

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 <i>or</i>	
MUCT 414	Orchestration and Arranging.....	3
MUCT 416	Composition.....	1
MUEN	Music Ensemble (lower division)*.....	2
MUEN	Music Ensemble (upper division)*.....	2
MUHL 201	Research in Music.....	1
MUHL 311	Music History I.....	3
MUHL 312	Music History II.....	3
MUPF	Applied Music.....	7
MUPF 468	Senior Recital.....	1
MUSC 475	Portfolio Development.....	1
<b>Total:</b>		<b>38</b>

*\*One major ensemble required for each semester in residence.*

## Music, B.S.

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 416	Composition.....	1
MUED 280	Basic Conducting.....	1
MUED 380	Choral Conducting.....	2
MUED 381	Instrumental Conducting.....	2
MUED **	Technique & Pedagogy.....	2
MUEN	Music Ensemble (lower division)*.....	2
MUEN	Music Ensemble (upper division)*.....	2

## Music

MUHL 201	Research in Music.....	1
MUHL 311	Music History I.....	3
MUHL 312	Music History II.....	3
MUPF	Applied Music.....	7
MUPF 468	Senior Recital.....	1
MUSC 475	Portfolio Development.....	1
<b>Total:</b>		<b>48</b>

*\*One major ensemble required for each semester in residence.*

**\*\*** String Majors will take MUED 373

**\*\*** Voice Majors will take MUED 451

**\*\*** Piano Majors will take MUED 452

**\*\*** Instrumental Majors will take MUED 453

## Music Minor

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.....	1
MUED 380	Choral Conducting or	
MUED 381	Instrumental Conducting.....	2
MUED	Pedagogy.....	2
MUEN	Ensemble.....	2
MUPF	Applied Music.....	4
<b>Total:</b>		<b>22</b>

## Teaching Certification Program - Music

All Level Certification in music, Option V in the Education Department portion of this *Bulletin*, can be added to either the B.A. or the B.S. in Music, though the department recommends the latter.

The student must make formal application for admittance to the Teacher Education Program. Applications are available at the Education Department office. This usually is done in the sophomore year. **Admission to the Teacher Education Program** in the Education section contains crucial information for the prospective teacher.

The Teaching Certification Program includes all courses in Section B, Professional Development, in the Education Department section. Besides including Directed Teaching, the music certification program includes 8 additional hours in Music Education as listed below.

MUED 355	Music in the School: K-12.....	2
Emphasis chosen from below.....		6
<b>Total:</b>		<b>8</b>
Piano Emphasis:		
MUED 452	Piano Technique and Pedagogy.....	2
MUPF 161	Organ.....	2
choice of MUED 372, MUED 374, or MUED 451.....		2

Voice Emphasis:		
MUED 275	Diction for Singers.....	2
MUED 451	Voice Technique and Pedagogy.....	2
MUED 452	Piano Pedagogy.....	2
Instrumental		
Emphasis:		
MUED 371	Percussion Technique and Pedagogy.....	2
MUED 372	Brass Technique and Pedagogy.....	2
MUED 373	String.....	2
MUED 374	Woodwind Technique and Pedagogy.....	2

## Courses

### **MUEN - Ensembles (1 hour)**

Prerequisite for 300 level courses: 4 semesters credit at the 100 level in the same ensemble.  
All ensembles are by permission of instructor.

Practical experience in the performance of selected ensemble works. (Fall, Spring)

MUEN 111	MUEN 311	Choraliers
MUEN 161-1	MUEN 361-1	Piano Ensemble
MUEN 161-3	MUEN 361-3	University Singers
MUEN 161-4	MUEN 361-4	Southwestern Brass
MUEN 161-5	MUEN 361-5	ASAPH
MUEN 161-6	MUEN 361-6	Guitar Ensemble
MUEN 161-7	MUEN 361-7	Southwestern Strings
MUEN 181	MUEN 381	Wind Symphony

## Music Performance

### **MUPF - Applied Music (1 hour)**

Prerequisite for 300/400 level courses: 2 semester credit at 100/200 level in the same performance area.

Weekly private instruction with major teacher in piano, voice, organ, brass woodwinds, percussion, and strings. (Fall, Spring)

Music majors are required to take sections numbered in the two hundreds or four hundreds for weekly one-hour private instruction.

Organ lessons with instructor's permission.

MUPF 111/211	MUPF 311/411	Strings
MUPF 121/221	MUPF 321	Piano Proficiency I, II, III
MUPF 131/231	MUPF 331/431	Voice*
MUPF 141/241	MUPF 341/441	Brass
MUPF 151/251	MUPF 351/451	Piano
MUPF 161/261	MUPF 361/461	Organ
MUPF 171/271	MUPF 371/471	Woodwinds
MUPF 182/282	MUPF 382/482	Percussion
MUPF 191/291	MUPF 391/491	Guitar

\* Students taking voice lesson must take a choral ensemble.

## Music

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### **MUPF 102 - Class Guitar (1 hour)**

This class is for the beginning guitarist. In this class, the student will learn how to apply basic musical concepts, such as rhythm, harmony, and melody to the guitar. At the end of this class you will be able to read and play basic chord symbols and melodies.

Student must provide his/her own acoustic guitar, set of strings and guitar picks. Electric guitar may be used. (Fall, Spring)

### **MUPF 468 - Music Major Senior Recital (1 hour)**

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. (Fall, Spring)

## Music History & Literature

### **MUHL 201 - Research in Music (1 hour)**

Prerequisite: ENGL 121

An introduction to research skills associated with the field of music. Students will learn to become discriminating in the use of primary and secondary sources as well as journals, indexes and databases as they produce a research paper. Students will also engage in activities designed to sharpen critical thinking as well as acquaint themselves with current trends in the discipline of music. Music majors in the course will begin the process of senior portfolio development. **This course fulfills the requirement for UNIV 201: Research in an Academic Discipline as specified in Southwestern Adventist University's Quality Enhancement Plan.** (Fall)

### **MUHL 221 - Survey of Music (3 hours)**

Music in western civilization including music fundamentals and a brief history from antiquity to the present. Presented by recordings, visuals, and lectures. This does not apply to a music major. (Fall, Spring)

### **MUHL 311 - Music History I (3 hours)**

Prerequisite: MUCT 251

A study of the history, style, and musical forms of the antiquity through the Baroque period. Music analysis and listening assignments will supplement lectures. **This course fulfills the requirement for an upper-division course with components as specified in Southwestern's Quality Enhancement Plan.** (Fall)

### **MUHL 312 - Music History II (3 hours)**

Prerequisite: MUHL 311

A study of the history, style, and musical forms of the Classical period through the twentieth century. Music analysis and listening assignments will supplement lectures. **This course fulfills the requirement for an upper-division course with components as specified in Southwestern's Quality Enhancement Plan.** (Spring)

## Music Education

### **MUED 253 - Music in the Elementary School (3 hours)**

Music in the education of children six to twelve years of age. Students develop their philosophy of music education as they practice methods for guiding children in musical experiences of listening, performing, and creating to foster aesthetic and cognitive growth. (Fall)



**MUED 275 - Diction for Singers (2 hours)**

Must be enrolled simultaneously in MUPF 131 or MUPF 331 (Applied Voice Lessons)

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. (Offered periodically)

**MUED 280 - Basic Conducting (1 hour)**

Prerequisite: MUCT 151

The study and drill of basic conducting patterns and coordination of hand and baton techniques. (Fall)

**MUED 355 - Music in the School: K-12 (2 hours)**

Prerequisite: MUCT 221

Music in the school from kindergarten through high school. Covers objectives, organization of subject matter, teaching techniques, and materials for general music classes. Will involve observation in the classroom. (Offered periodically)

**MUED 380 - Choral Conducting (2 hours)**

Prerequisite: MUED 280

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. (Fall)

**MUED 381 - Instrumental Conducting (2 hours)**

Prerequisite: MUED 280

Conducting patterns applied to elements of interpretation. Emphasis on score reading, rehearsal techniques, and conducting problems. Practical application in active musical organizations. (Spring)

**MUED - Technique & Pedagogy (2 hours)**

Prerequisite: MUCT 151

An introduction to teaching and performing through intermediate level. Performance techniques, pedagogical methods and materials, maintenance and practical teaching experience. (Offered periodically)

**MUED 371 Percussion**

**MUED 372 Brass**

**MUED 373 Strings**

**MUED 374 Woodwind**

**MUED 451 Voice**

**MUED 452 Piano**

**MUED 453 Instrumental Pedagogy**

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**Music Theory****MUCT 111 - Music Theory I (3 hours)**

Co-requisite: MUCT 121

An integrated study of harmony, keyboard harmony, form, and aural training, focusing mainly on Baroque style. (Fall)

**MUCT 121 - Ear Training and Sight Singing I (1 hour)**

The lab component to accompany Music Theory I. (Fall)

## Music

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### **MUCT 151 - Music Theory II (3 hours)**

Prerequisite: MUCT 111 or permission of the instructor. Co-requisite: MUCT 161

A continuation of the concepts begun in MUCT 111, focusing mainly on Classical period style. (Spring)

### **MUCT 161 - Ear Training and Sight Singing II (1 hour)**

The lab component to accompany Music Theory II. (Spring)

### **MUCT 221 - Music Theory III (3 hours)**

Prerequisite: MUCT 151 or permission of the instructor.

The study of harmony, form, and aural skills based on the chromatic style of the Romantic period. (Fall)

### **MUCT 251 - Music Theory IV (3 hours)**

Prerequisite: MUCT 221

The study of harmony, form, and composition based on a wide variety of 20th century styles. (Spring)

### **MUCT 315 - Form and Analysis (3 hours)**

Prerequisite: MUCT 251

A study of musical form, both polyphonic and homophonic, covering the period of common practice and emphasizing the late Baroque and Classical periods. (Fall, even years)

### **MUCT 414 - Orchestration and Arranging (3 hours)**

Prerequisite: MUCT 251

The technical aspects of and sound qualities of instruments. Arranging for a variety of instrumental groups. (Fall, odd years)

### **MUCT 416 - Composition (1 hour)**

Prerequisite: MUCT 221 or permission of the instructor.

A composition seminar focusing on the smaller 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. May be repeated for a total of 3 credits. (Spring)

## Selected Topics

### **MUSC 291 - Selected Topic (1 hour)**

Prerequisite: Approval by department chair

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.

### **MUSC 475 - Portfolio Development (1 hour)**

In this course senior music majors will meet with departmental faculty to arrange and finalize the contents of their professional portfolio. Taken concurrently with the senior recital, this course will include the research and writing of scholarly recital concert notes. Required for all majors in music. **This class fulfills the requirement for a capstone/ portfolio completion class with components as specified in Southwestern's Quality Enhancement Plan.** (Fall, Spring)

**MUSC 491 - Selected Topic (1 hour)**

Prerequisite: Approval by department chair

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.

**MUSC 492 - Music Internship (1-3 hours)**

Permission of department chair

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.



# Nursing

## Faculty/Staff

Chair; Jean Alway, Bonnie Gnadt, Ron Mitchell, Donna Read, Catherine Turner, Lolita Valdez.

## Mission Statement

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 aim of the nursing program is to graduate competent, employable, safe practitioners who are prepared to participate in the delivery of evidenced-based nursing care, who have the knowledge base 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). The graduates of the B.S. Program are prepared for graduate study. Differentiated entry level competencies are used to ensure skilled practitioners.

## Accreditation

The B.S. program is fully approved by the Texas Board of Nursing and is accredited with the Commission on Collegiate Nursing Education: One DuPont Circle, NW, Suite 530, Washington, DC 20036-1120.

## Admissions

### Application Process

**All Application materials must be submitted, to the Department of Nursing, by October 1<sup>st</sup>, application deadline. Late applications and incomplete files cannot be considered.**

1. **Apply Online** at the nursing webpage: <http://nursing.swau.edu>
  - If you have not previously applied to Southwestern, complete the Combined Southwestern and BS Nursing Application. – OR –
  - If you have previously applied and are a current student at Southwestern, complete the BS Nursing Application.
2. **Obtain three professional reference letters** from teachers, employers, and/or church pastor, which attest to professional competence, scholastic ability, emotional stability, and physical health. Send completed forms to the Nursing Admissions office. (forms are available at <http://nursing.swau.edu>)
3. **Send official transcripts from all schools attended** (high school, colleges and/or universities) to the Southwestern Adventist University Office of Admissions and Records.
4. **Complete and send in all health records:** (physical and health record forms are available at <http://nursing.swau.edu>)
  - a. Physician's Report of Physical Examination
  - b. Proof of current immunizations as required by the State of Texas (Tdap, MMR, Varicella, Hepatitis B)

## Nursing

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- c. Current TB Test
- d. Current CPR for the Healthcare Provider
- 5. **Successfully complete at least 50 semester hours of pre-nursing requirements**, including courses in progress.
- 6. **Pass the HESI Nursing Admission Assessment Exam.**
- 7. **Complete an interview with a nursing advisor.**

### Admission Criteria

- 1. Meet all admission requirements for enrollment at Southwestern Adventist University.
- 2. Complete all the steps in the Nursing Application Process.
- 3. Successfully complete the Nursing pre-requisite courses (28 credits):
  - a. BIOL 101, 102 Anatomy and Physiology I and II\* (8 semester credits with lab)
  - b. BIOL 220 Microbiology\* (4 semester credits with lab)
  - c. CHEM 105 Survey of Chemistry\* (4 semester credits with lab)
  - d. ENGL 121 Freshman Composition (3 semester credits)
  - e. MATH 110 College Algebra\* (3 semester credits) or University required math score of 500 on SAT or 21 on ACT
  - f. PSYC 212 General Psychology\* (3 semester credits)
  - g. PSYC 220 Human Growth and Development\* (3 semester credits)
- 4. Successfully complete additional required courses selected from the following (22 semester credits):
  - *Nursing Cognates (required)*
    - a. KINT 216 Nutrition\* (2 semester credits)
    - b. SOCI 111 Introduction to Sociology\* (3 semester credits)
  - *General Education*
    - a. CSIS 102 Computer Literacy and Applications (3 semester credits)
    - b. ENGL 220 Research Writing (3 semester credits)
    - c. ENGL Literature Elective (3 semester credits)
    - d. HIST History Elective (3 semester credits)
    - e. HIST Non-American History Elective (3 semester credits)
    - f. KINA Physical Education Elective (1 semester credit)
    - g. NURS 110 Health Related Topic (1 semester credit)
    - h. RLGN Religion Electives (6 semester credits)
    - i. UNIV 110 Principles of Active Learning (1 semester credit)
- 5. Maintain a cumulative college GPA of at least 2.75 on a 4.0 scale.
- 6. Applicants whose first language is not English must have a **score of at least 550 on the TOEFL** (Test of English; as a foreign Language) or **80<sup>th</sup> percentile on the University of Michigan English Language Institute Test**.
- 7. Pass the HESI Nursing Admission Exam with scores of at least 80% in Reading Comprehension, Grammar, Vocabulary, Math, Anatomy and Physiology, and General Knowledge.

*\*Completed within the last 7 years with a grade of C or better.*

### Student Selection

**Admission to the Southwestern BS Nursing Program** is granted after completion of the Application Process and on a space available basis. Due to the high number of applicants, not

all who meet the admission criteria can be accepted. Students are selected from the applicant pool based on the following process:

1. Applicants who have taken all their academic courses at SWAU
2. Seventh-Day Adventist Applicants who meet the admission criteria
3. Second degree applicants
4. Remaining applicants by GPA and HESI Admission Exam scores

**After receipt of the letter of admission** to the Nursing Program, applicants must complete additional requirements to confirm and retain their place in the class.

1. Send to the Nursing Admissions Office within 30 days of the admission letter date:
  - a. **\$100 Nursing Deposit** to reserve a place in the January class
  - b. **\$39 Drug Testing fee.** Testing will take place on an unannounced date at the beginning of the semester.
  - c. **Online Background Check password.** Instructions will be provided with the letter of admission.
2. **Orientation:** All newly admitted nursing students are required to attend the nursing orientation prior to the beginning of the spring semester. *Failure to attend will forfeit admission to the program.*
3. **Uniforms** are to be purchased from the designated provider. Information will be provided during orientation regarding fitting and ordering.

### **Bachelor of Science Applicants (four Year Degree Program)**

The student seeking a B.S. degree in nursing or a student transferring from another institution will enter the B.S. degree plan at the place determined by the Admissions Committee and follow the application process outlined for the nursing program.

### **Licensed Vocational Nurse Applicants (LVN-BS)**

The licensed vocational nurse who wishes placement with advanced standing to earn a B.S. degree in nursing must:

1. Currently hold an unencumbered license as a LVN/LPN.
2. Have at least one year of work experience as a LVN/LPN.
3. Fulfill the admission criteria and prerequisites for the B.S. program.
4. LVNs may petition the Nursing Progression Committee to waive the admission criteria "within seven years" in the B.S. admission criteria.

General education, science, and cognate requirements are met through transfer of credit or completion of courses in residence. Credits for NURS 211 and NURS 315 (clinical portion) are awarded as credit by exam or by transfer of LVN course work. The LVN student may then enter the program in either fall or spring semester.

## **Policies**

### **Continuation and Progression Policies**

1. The Department of Nursing reserves the right to require withdrawal of a nursing student from the program or a nursing course who fails to demonstrate competency and/or displays inappropriate/unprofessional or unsafe behavior. Additional criteria for continuation in the program are consistent with the standards of the Texas Board of Nursing (TBON)

2. Students may only progress to 300 level nursing courses when they have a B or better in both NURS 211 Fundamentals and NURS 212 Physical Assessment. These courses **may not** be repeated.
3. Students are required to pass dosage calculation tests periodically throughout the program. Failure to achieve a passing score, after three attempts will prevent continuation in nursing courses that semester and may result in termination from the nursing program.
4. Students must maintain a cumulative nursing GPA of 2.5 in required nursing courses (see #7) to progress in nursing and to graduate. No grade lower than C will be accepted in nursing and nursing cognate courses.\* Students whose nursing GPA falls below 2.5 at any time during the program must raise their nursing GPA to 2.5 or better in the next long (not summer) semester to continue in the program. If the nursing GPA remains below 2.5 for a second semester, the student will be required to repeat a nursing course (including clinical) specified by the Nursing Progression Committee to raise the nursing GPA to 2.5 or above. Students who repeat a nursing course to raise their nursing GPA must re-enroll in the course within one year. If the nursing GPA remains below 2.5 after the repeated nursing course, the student will be permanently dropped from the program.
5. Students are allowed only one repeat of one nursing course in 300 or 400 level courses. This policy does not include NURS 428, Capstone.
6. Nursing courses dropped within one (1) week after the midterm date on the academic calendar will not count as a complete course. A nursing course that is dropped after that time will be treated as a completed nursing course and will count as the repeat course if the student is eligible for re-enrollment of the course. This can occur only one time.
7. The nursing GPA, for the purpose of progression, will be computed on the following courses: NURS 211 NURS 212 NURS 313 NURS 314 NURS 315 NURS 316 NURS 317 NURS 318 NURS 319 NURS 320 NURS 421 NURS 422 NURS 423 NURS 424 NURS 425 NURS 426 NURS 427.
8. Students who fail a course may progress only with permission of the Nursing Progression Committee (NPC).
9. All nursing courses are to be completed within a six-year time frame.
10. Students must complete their nursing courses at Southwestern unless special permission is granted.
11. A score of at least 850 is required on the exit examination as part of NURS 428 Nursing Capstone for graduates.
12. Prior to attendance at clinical, all students must provide proof of current Health Care Provider CPR certification, proof of current immunizations, proof of negative TB test, and a physician's report of physical examination. These records must be maintained up to date throughout the students' enrollment in the nursing program.
13. LVN and RN students must maintain current Texas unencumbered licensure throughout their enrollment in the nursing program. The nursing courses must be completed in the sequence specified in the full-time degree plan.
14. After acceptance but before the first clinical course all students must submit to and pay for a criminal background check and drug screening as arranged by the Nursing Department.

\*Nursing cognate courses:

BIOL 101, 102, 220	MATH 241
CHEM 105*	PSYC 212, 220
KINT 216	SOCI 111

\* If taking a two course sequence both courses are required.



**Termination Policy**

The following situations or conditions may result in termination from the nursing program:

1. Unsafe, unethical, or unprofessional nursing practice
2. Nursing GPA less than 2.5 following a repeat of one nursing course
3. Failure to pass dosage calculation test after three attempts
4. Dishonesty
5. Unresolved issues with the drug screen and background checks

**Readmission Policy**

Readmission is possible for nursing students who left the program in good standing, and according to the nursing progression criteria. Students who have been out of the program will return under the current bulletin at a point in the program specified by the Admissions Committee. All nursing courses must be completed within six years. A new Background check and drug screen must be completed and approved before being readmitted.

**Special Student**

An applicant who wishes to enroll in nursing courses without pursuing a degree at Southwestern should apply for enrollment in the university as a special student. Consent for enrollment as a special student is subject to fulfillment of course prerequisites, instructor's consent, and space availability.

**Part-time Students**

Qualified students may enroll on a part-time basis. Required general education and cognate pre-nursing courses must be completed before entering the program. The nursing courses must be completed in the sequence specified in the full-time degree plan.

**Transfer Students**

Students wishing to transfer into the nursing program are required to have a minimum college GPA of 2.75. A minimum grade of C (2.0) is required for any course accepted for transfer credit. Course descriptions or outlines will be required when necessary to determine the acceptability of a course or the amount of transfer credit to be granted. Previous nursing credits must have been earned within the past three years. The department reserves the right to require the transfer applicant to pass written and/or practical examinations in any course for which transfer credit is requested. Transfer credit in nursing is accepted for RN-BS students only. Nursing GPA is calculated on credits earned at Southwestern Adventist University only.

**Transportation Policies**

Students are expected to provide their own transportation to and from off-campus clinical labs. Faculty will not provide transportation. Students are advised not to transport clients in their own vehicles under any circumstances. This policy protects both the student and the client. Texas law requires proof of automobile liability insurance.

**Residency Requirement**

The candidate for a B.S. degree in nursing must take 28 semester hours of upper division nursing courses in residence at Southwestern and must fulfill the University residency requirements as stated elsewhere in this bulletin.

Students must meet the requirements of the bulletin in effect at the time of acceptance into the nursing program. Prospective students and pre-nursing students, on and off Southwestern's campus, must work closely with the Nursing Department to ensure readiness to begin nursing classes. Students who do not take classes for one long semester will return under the new bulletin and must repeat the drug screen and background check.

### Graduation Requirements

1. Satisfactory completion of 128 semester hours including 61 hours of nursing and 67 hours of cognate and general education\*.
2. Fulfillment of the general education requirements for a B.S. degree. (Students of nursing fulfill the writing component of the English requirement with NURS 320 and NURS 426 and speech requirement is completed with NURS 425.)
3. A minimum nursing GPA of 2.5.
4. Successfully pass the exit examination as part of NURS 428 Nursing Capstone.
5. Recommendation by the faculty for graduation.

### Nursing Department Grievance Policy

Nursing students who wish to appeal an issue should refer to the Southwestern Adventist University's policy on Student Academic Appeals, and must follow this departmental procedure\*\*:

1. The student should discuss his/her grievance with the instructor involved no later than 1-2 University days of the event/evaluation/ dismissal in an attempt to resolve the grievance.
2. If a resolution has not been reached, the student should submit his/ her grievance in writing to the Department Chair within 1-2 University days following discussion with the instructor. The Chair has one University day to respond.
3. If a resolution has not been reached, the student should submit his/her grievance in writing to the Nursing Progression Committee within one University day following discussion with the Department Chair. The Nursing Progression Committee has one University day to respond.
4. If a resolution has not been reached, the student may contact the Vice President for Academic Administration within one University day following receipt of the Nursing Progression Committee decision to continue the University process for Academic Appeals. This concludes STEP I of the University appeals process. All steps must be followed.

\* In compliance with the Texas State Board of Nursing's policy (TBON), completion of the nursing program does not guarantee eligibility for the registered nurse licensure examination. An individual who may be ineligible for licensure due to physical/emotional disabilities or past criminal convictions which are likely to affect professional practice and/ or behavior, should seek departmental/legal advising prior to enrolling in any professional nursing program in Texas. The Texas Board of Nursing also requires an online jurisprudence course prior to licensure.

\*\* The appeals tracking form may be obtained from the advisor.

## Programs

### Bachelor of Science Major Requirements

NURS 110	Health Related Topics.....	1
NURS 201	Information Literacy for Nursing Students.....	1
NURS 211	Fundamentals of Nursing.....	5
NURS 212	Physical Assessment.....	3
NURS 313	Pathophysiology.....	3
NURS 315	Medical/Surgical Nursing I.....	5
NURS 316	Gerontological Nursing.....	2
NURS 317	Pharmacology.....	3
NURS 318	Child Health Nursing.....	4
NURS 319	Medical/Surgical Nursing II.....	5
NURS 320	Issues and Trends in Nursing.....	2
NURS 421	Nursing Research.....	3
NURS 422	Mental Health Nursing.....	5
NURS 423	Maternal Newborn Nursing.....	5
NURS 424	Community Health Nursing.....	4
NURS 425	Clinical Nursing Specialty.....	2
NURS 426	Nursing Leadership.....	3
NURS 427	Medical/Surgical Nursing III.....	4
NURS 428	Nursing Capstone.....	1
<b>Total:</b>		<b>61</b>

### Required Cognate Courses

BIOL 101	Anatomy and Physiology.....	4
BIOL 102	Anatomy and Physiology.....	4
BIOL 220	Microbiology.....	4
CHEM 105	Survey of Chemistry.....	4
KINT 216	Nutrition.....	2
MATH110	College Algebra (or placement exam).....	3
MATH 241	Intro to Probability & Statistics.....	3
PSYC 212	General Psychology.....	3
PSYC 220	Human Growth and Development.....	3
SOCI 111	Introduction to Sociology.....	3
<b>Total:</b>		<b>33</b>

### General Education Courses

ENGL 121	Freshman Composition.....	3
ENGL 220	Research and Professional Writing.....	3
ENGL	Literature Elective.....	3
CSIS 102	Microcomputer Literacy and Application.....	3
HIST	History Elective (3 hours must be non-American).....	6
KINA	P.E. Elective.....	2
RLGN	Religion Electives (3 hours upper division ).....	12
UNIV 110	Principles of Active Learning.....	1
	Elective.....	1
<b>Total:</b>		<b>34</b>

## Bachelor of Science in Nursing - Degree Plan

### First Year

#### Fall

NURS 110	Health Related Topics.....	1
CSIS	Computer Elective.....	3
MATH110	College Algebra*.....	3
BIOL 101	Anatomy & Physiology I*.....	4
UNIV 101	Principles of Active Learning.....	1
KINA	Elective (PE Activity).....	1
PSYC 212	General Psychology*.....	3
<b>Total:</b>		<b>16</b>

#### Spring

BIOL 102	Anatomy & Physiology II*.....	4
ENGL 121	Freshman Composition*.....	3
PSYC 220	Human Growth & Development.....	3
RLGN	Religion Elective.....	3
SOCI 111	Introduction to Sociology.....	3
<b>Total:</b>		<b>16</b>

### Second Year

#### Fall

CHEM 105	Survey of Chemistry and Lab*.....	4
BIOL 220	Microbiology*.....	4
ENGL 220	Research and Professional Writing.....	3
HIST	History Elective.....	3
RLGN	Religion Elective.....	3
<b>Total:</b>		<b>17</b>

#### Spring

NURS 201	Information Literacy for Nursing Students.....	1
NURS 211	Fundamentals of Nursing.....	5
NURS 212	Physical Assessment.....	3
KINT 216	Nutrition.....	2
HIST	Non-American History Elective.....	3
	Elective.....	1
<b>Total:</b>		<b>15</b>

### Third Year

#### Fall

NURS 313	Pathophysiology.....	3
NURS 315	Medical-Surgical Nursing I.....	5
NURS 316	Gerontological Nursing.....	2
NURS 317	Pharmacology.....	3
RLGN	Elective.....	3
<b>Total:</b>		<b>16</b>

#### Spring

NURS 318	Child Health Nursing **.....	4
NURS 319	Medical-Surgical Nursing II.....	5
NURS 320	Issues & Trends in Nursing.....	2

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MATH 241	Intro to Probability & Statistics.....	3
ENGL	Literature Elective.....	3
<b>Total:</b>		<b>17</b>

### Summer

#### First Module

NURS 318C	Child Health Nursing Clinical.....	0
<b>Total:</b>		<b>0</b>

### Fourth Year

#### Fall

NURS 421	Nursing Research.....	3
NURS 422	Mental Health Nursing or.....	
NURS 423	Maternal-Newborn Nursing.....	5
NURS 426	Nursing Leadership.....	3
NURS 427	Medical-Surgical Nursing III.....	4
KINA	Elective (PE Activity).....	1
<b>Total:</b>		<b>16</b>

#### Spring

NURS 422	Mental Health Nursing or.....	
NURS 423	Maternal-Newborn Nursing.....	5
NURS 424	Community Health.....	4
NURS 425	Clinical Specialty.....	2
NURS 428	Capstone.....	1
RLGN	Religion Elective (UD).....	3
<b>Total:</b>		<b>15</b>

*Required Upper Division Hours = 40*

**Total Hours: 128**

\* Pre-requisites to NURS 211.

\*\* Grade earned after summer clinical component is completed.

## RN to BS Degree

The registered nurse with an Associate of Science degree or a diploma in nursing may enter the nursing program at Southwestern Adventist University at the junior level and will usually be prepared to graduate with a Bachelor of Science degree in two academic years. **All nursing courses must be taken in sequence.** 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 NLN accredited associate degree program with requirements in nursing and cognate/ general education courses comparable to those at Southwestern.
2. A minimum cumulative GPA of 2.25 for lower division courses and a minimum 2.25 GPA for Nursing courses.

Nursing

- 3. Eligibility for junior standing in the university, having completed a minimum of 58 semester units (87 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 CPR certification as Health Care Provider.

RN to BS Completion Program\*

Nursing Cognate Courses

BIOL 101	Anatomy & Physiology I.....	4
BIOL 102	Anatomy & Physiology II.....	4
BIOL 220	Microbiology.....	4
CHEM 105	Survey of Chemistry.....	4
KINT 216	Nutrition.....	2
PSYC 212	General Psychology.....	3
PSYC 220	Human Growth & Development.....	3
SOCI 111	Introduction to Sociology.....	3
Total:		27

General Education Courses

CSIS 102	Microcomputer Literacy and Applications.....	3
ENGL 121	Freshman Composition.....	3
ENGL 220	Research and Professional Writing.....	3
ENGL	Literature Elective (upper division).....	3
HIST	History Elective (upper division).....	3
HIST	Non-American History Elective (upper division).....	3
MATH 110	College Algebra.....	(3)
MATH 241	Introduction to Probability & Statistics.....	3
KINA	Elective (PE Activity).....	1
KINA	Elective (PE Activity).....	1
RLGN	Religion Elective.....	3
RLGN	Religion Elective (upper division).....	3
UNIV 110	Principles of Active Learning.....	1
Total:		37(40)

Fall

NURS 313	Pathophysiology.....	3
NURS 316	Gerontological Nursing.....	2
NURS 421	Nursing Research.....	3
NURS 426	Nursing Leadership.....	3
NURS 427	Medical/Surgical Nursing III.....	4
Total:		15

Spring

NURS 301	Information Literacy for Nursing for RNs.....	1
NURS 310	Health Related Topics.....	1
NURS 312	Physical Assessment for RNs.....	3
NURS 320	Issues & Trends in Nursing.....	2

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## Nursing

NURS 424	Community Health Nursing.....	4
NURS 425	Clinical Specialty (clinical only).....	2
NURS 429	Nursing Capstone.....	1
<b>Total:</b>		<b>14</b>

**Total upper division nursing credits: 28**

**Total upper division general education credits: 15**

**Total: 40**

\* Current RN license required to enroll in the RN to BS Completion Program.

## Prerequisites for LVN Admission to BS Program

### Nursing Cognate Courses

BIOL 101	Anatomy & Physiology I.....	4
BIOL 102	Anatomy & Physiology II.....	4
BIOL 220	Microbiology.....	4
CHEM 105	Survey of Chemistry.....	4
KINT 216	Nutrition.....	2
PSYC 212	General Psychology.....	3
PSYC 220	Human Growth & Development.....	3
SOCI 111	Introduction to Sociology.....	3
<b>Total:</b>		<b>27</b>

### General Education Courses

CSIS 102	Microcomputer Literacy and Applications.....	3
ENGL 121	Freshman Composition.....	3
ENGL 220	Research Writing.....	3
HIST	History Elective.....	3
HIST	Non-American History Elective.....	3
MATH 110	College Algebra.....	3
MATH 241	Introduction to Probability & Statistics.....	3
KINA	Elective (PE Activity).....	1
UNIV 110	Principles of Active Learning.....	1
<b>Total:</b>		<b>23</b>

## LVN Credit

With a current LVN license and at least one year work experience as a licensed LVN, credit will be granted for the following upon successful completion of at least 12 credit hours at Southwestern Adventist University:

NURS 211	Fundamentals of Nursing.....	5
NURS 314	Clinical component of Med Surg Nursing I.....	2
<b>Total:</b>		<b>7</b>

### First Year

#### Spring

NURS 201	Information Literacy for Nursing Students.....	1
NURS 210	LVN to RN Bridge.....	1

## Nursing

NURS 212	Physical Assessment.....	3
ENGL	Literature Elective.....	3
RLGN	Religion Elective.....	3
	<b>Total:</b> .....	<b>11</b>

### Second Year

#### Fall

NURS 313	Pathophysiology.....	3
NURS 315	Medical-Surgical Nursing 1 (theory only).....	3
NURS 316	Gerontological Nursing.....	2
NURS 317	Pharmacology.....	3
RLGN	Religion Elective.....	3
	<b>Total:</b>	<b>14</b>

#### Spring

NURS 318	Child Health Nursing.....	4
NURS 319	Medical-Surgical Nursing II.....	5
NURS 320	Issues & Trends in Nursing.....	2
MATH 241	Introduction to Probability & Statistics.....	3
RLGN	Religion Elective (upper division).....	3
	<b>Total:</b>	<b>17</b>

### Summer

#### First Module

NURS 318C	Child Health Nursing Clinical.....	0
	<b>Total:</b>	<b>0</b>

### Third Year

#### Fall

NURS 421	Nursing Research.....	3
NURS 422	Mental Health Nursing <i>or</i>	
NURS 423	Maternal-Newborn Nursing.....	5
NURS 426	Nursing Leadership.....	3
NURS 427	Medical/Surgical Nursing III.....	4
	<b>Total:</b>	<b>15</b>

#### Spring

NURS 422	Mental Health Nursing <i>or</i>	
NURS 423	Maternal-Newborn Nursing.....	5
NURS 424	Community Health Nursing.....	4
NURS 425	Clinical Specialty (clinical only).....	2
NURS 428	Nursing Capstone.....	1
KINA	Elective (PE Activity).....	1
	<b>Total:</b>	<b>13</b>

## Courses

### NURS 011 - Coaching for Success in Nursing (1 hour)

This course is designed to enhance skills needed for success in nursing courses. Emphasis is placed on integrating knowledge to develop expert learning strategies. Required for students on probation or with a C in any nursing course. (Fall, Spring)



**NURS 110 - Health Related Topics (1-2 hours)**

Several different topics are offered each semester. These are open to all disciplines. Content will be health issues and may include theory, clinical and/or research. Contact the Nursing Department for specific information each semester. May be repeated. (Fall, Spring)

**NURS 112 - Medical Terminology (1 hour)**

The focus of this course is on current terminology used by nurses and other health care providers. The course also contains elements of the historical development of certain medical terms including Greek and Latin word parts from the past and eponyms from modern language. (Fall, Spring)

**NURS 201 - Information Literacy for Nursing Students (1 hour)**

Prerequisites: ENGL 121; CSIS 102; Acceptance into the nursing program

An introduction to beginning competencies in information literacy, scientific inquiry, and portfolio development. Using a variety of resources, students will learn to access, evaluate, and use information effectively, enabling them to ask informed questions specific to nursing. Students begin portfolio development illustrating their competencies in information literacy, scientific inquiry, and self-assessment. **This course fulfills the requirement for UNIV 201: Research in an Academic Discipline as specified in Southwestern's Quality Enhancement Plan.** (Required of all transfer students.) (Fall, Spring)

**NURS 210 - LVN to RN Bridge (1 hour)**

Prerequisite: Acceptance into LVN to BS program

This course introduces 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 gain experience in using nursing models for planning, implementing, and evaluating patient care.

**NURS 211 - Fundamentals of Nursing (5 hours)**

Prerequisite: Acceptance into the nursing program

Introduces the students to core values, concepts and theories of nursing with emphasis on caring, nursing process, critical thinking, therapeutic communication process, health promotion and professionalism. Students acquire basic nursing skills to implement the nursing process for individuals in diverse settings. 2.5 Theory 10 Clinical/Lab. (Spring)

**NURS 212 - Physical Assessment (3 hours)**

Prerequisite: Acceptance into the nursing program. Acceptance into RN to BS program.

This course provides structured learning experiences to enable the student to perform complete nursing assessment and appropriate reporting of findings from infancy through senescence. The course will also include concepts of aging, chronic diseases and aspects of rehabilitation. Teaching/learning approaches include lecture, demonstration, and skills laboratory practice. 3 Theory. (Fall, Spring)

### **NURS 301 - Information Literacy for RNs (1 hour)**

Prerequisite: Acceptance into the nursing program, ENGL 121, CSIS 102. Acceptance into RN to BS program.

An introduction to beginning competencies in information literacy, scientific inquiry, and portfolio development. Using a variety of resources, students will learn to access, evaluate, and use information effectively, enabling them to ask informed questions specific to nursing. Students begin portfolio development illustrating their competencies in information literacy, scientific inquiry, and self-assessment. **This course fulfills the requirement for UNIV 201: Research in an Academic Discipline as specified in Southwestern's Quality Enhancement Plan.** (Fall, Spring)

### **NURS 310 - Health Related Topics (1 hour)**

Prerequisites: Acceptance into RN to BS program.

Different topics will be offered each semester designed for the RN nursing student. Content will be health related and may include clinical, theory and research. May be repeated. (Fall, Spring)

### **NURS 312 - Physical Assessment (3 hours)**

Prerequisite: Acceptance into the RN to BS program

This course provides structured learning experiences to enable the RN student to perform a complete nursing assessment and appropriate reporting findings from infancy through senescence. Concepts of aging, chronic diseases and aspects of rehabilitation will be included in the course. The RN student will assist in demonstrations and observation of skills during the laboratory practice sessions. 3 Theory (Spring)

### **NURS 313 - Pathophysiology (3 hours)**

Prerequisites: All 200 level nursing courses or permission of instructor.

The basic concepts essential to gaining understanding of the pathophysiology of common diseases are covered. 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. (Fall)

### **NURS 314 - Medical Surgical Nursing I (3 hours)**

Prerequisite: Acceptance into LVN to BS program.

The LVN-to-BS 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 clients with health care problems that are high volume. Concepts of nutrition, communication, human diversity, spirituality, gerontology and pharmacology are integrated into the course. 2.5 Theory 2 Lab. (Fall)

### **NURS 315 - Medical Surgical Nursing I (5 hours)**

Prerequisites: All 200 level nursing courses and KINT 216.

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 clients with health care problems that are high volume. Concepts of nutrition, communication, human diversity, spirituality, gerontology and pharmacology are integrated into the course. 2.5 Theory, 10 Clinical/lab. (Fall)

**NURS 316 - Gerontological Nursing (2 hours)**

Prerequisites: All 200 level nursing courses.

This is a study of the nursing care of the older adult based upon the American Association of Colleges of Nursing Baccalaureate Competencies and the National Gerontological Nursing Association Core Curriculum for Gerontological Nursing. The student will learn theory and application related to normal aging, health promotion, disease/disability prevention, and other evidence-based practices. 2 Theory. (Fall)

**NURS 317 - Pharmacology (3 hours)**

Prerequisites: All 200 level nursing courses.

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. (LVN to BS students required to take this course.) 3 Theory. (Fall)

**NURS 318 - Child Health Nursing (4 hours)**

Prerequisites: All 200 level nursing courses , NURS 313, NURS 315, NURS 317 and PSYC 220.

The 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 clinic. Complex health problems of children are examined including congenital and acquired conditions. 2 Theory (Spring), 8 Clinical/Lab taught in the first summer module after the completion of theory.

**NURS 319 - Medical Surgical Nursing II (5 hours)**

Prerequisites: All 200 level nursing courses , NURS 313, NURS 315, and NURS 317.

The student will build on concepts introduced in Fundamentals, Assessment, Pathophysiology and Medical Surgical Nursing I. Application of the nursing process and standards of Medical Surgical Nursing will be integrated into theory and practice. Emphasis is on clients with acute and chronic health care problems requiring individualized care and learning needs. Content is selected to increase breadth and depth in medical/surgical nursing concepts. Technical skills will be developed focusing on the acutely ill clients in the acute and community care setting. The students will apply the professional roles in the provision of care in progressively complex situations. 2.5 Theory, 10 Clinical/Lab. (Spring)

**NURS 320 - Issues and Trends in Nursing (2 hours)**

Prerequisites: All Level II nursing courses or permission of the instructor.

Content focuses on recent trends, issues, and concerns within professional nursing. Students have the opportunity to explore relevant topics regarding nursing and its relationship to a changing health care system. **This course fulfills the requirement for an upper-division course with components as specified in Southwestern's Quality Enhancement Plan.** 2 Theory. (Spring)

**NURS 421 - Nursing Research (3 hours)**

Prerequisites: All 300 level nursing courses, or permission of the instructor. MATH 241

This course focuses on the concepts and methodology involved in conducting research in nursing. Students learn to critique nursing research reports for clinical utilization. **This course fulfills the requirement for an upper-division course with components as specified in Southwestern's Quality Enhancement Plan.** 3 Theory. (Fall)

### **NURS 422 - Mental Health Nursing (5 hours)**

Prerequisites: All 200 and 300 level nursing courses.

This course involves the study of thoughts, emotions, and behavior. Students apply the nursing process to the care of clients in a variety of psychiatric-mental health settings. Students are provided opportunities to increase skills in critical thinking, caring relationships, collaborative communication, self-awareness, and self-evaluation. This course reflects the ANA Standards of Psychiatric/Mental Health Clinical Nursing Practice (ANA, 1994). 2.5 Theory, 10 Clinical/Lab. (Fall, Spring)

### **NURS 423 - Maternal-Newborn Nursing (5 hours)**

Prerequisites: All 200 and 300 level nursing courses.

This course introduces 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. Guidelines for student nursing care of women and newborns are based on the Association of Women's Health, Obstetric and Neonatal Nursing Standards of Practice which fall within the regulations of the Nurse Practice Act. 2.5 Theory, 10 Clinical/Lab. (Fall, Spring)

### **NURS 424 - Community Health Nursing (4 hours)**

Prerequisites: MATH 241, all 300 level nursing courses, NURS 421 and 427, or permission of the instructor.

The ANA Standards for Home Health Nursing and Community Nursing provides foundation for the practice of community health nursing. Included are the nursing care of individuals, families, populations, and communities. Emphasis is placed on health-promotion and disease prevention with increased attention to care of families at risk for physical, mental, socio-cultural, and spiritual dysfunction. Interventions for vulnerable individuals, families and groups are examined and practiced in a variety of community settings. 2 Theory, 8 Clinical/Lab. (Spring)

### **NURS 425 - Clinical Nursing Specialty (2 hours)**

Prerequisites: All 300 level nursing courses, NURS 422 or 423, NURS 427, or permission of the instructor.

A clinical course in which students select an area of interest for in-depth, progressive, and sequential study under the guidance of the faculty. Clinical experience is supervised by preceptors and guided by the Professional Nurse's Code of Ethics and the American Nurses Association's Standards of Nursing Practice. This course contains presentations which meet the speech requirements of the University. 8 Clinical/Lab. (Spring)

### **NURS 426 - Nursing Leadership (3 hours)**

Prerequisites: All 200 and 300 level nursing courses.

Leadership merges theory and research and provides practical applications in today's health-care settings. The student examines concepts related to building teams, problem solving, decision making, effective communication, managing change and conflict, and more. This course fulfills the requirement for the upper division writing course in accordance with university policy. 1.5 Theory, 1 1/2 Seminar. (Fall)

**NURS 427 - Medical Surgical Nursing III (4 hours)**

Prerequisites: All 200 and 300 level nursing courses.

The student will build on concepts introduced in Fundamentals, Assessment, Pathophysiology and Med Surg I and Med Surg II. Application of the nursing process and standards of the American Association of Critical Care Nurses (AACN) will be integrated into theory and practice. Content is selected to increase breadth and depth in medical/surgical nursing with integration of community and mental health concepts. Technical skills will be developed focusing on the acutely ill clients 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. The students apply the professional roles in the provision of care in progressively complex situations. 2 Theory, 8 Clinical/Lab. (Fall)

**NURS 428 - Nursing Capstone (1 hour)**

Prerequisites: All 200 and 300 level nursing courses; NURS 421, NURS 422 or 423, NURS 426, NURS 427.

Corequisite: NURS 422 or 423, NURS 424, NURS 425. This course taken during last semester of nursing program..

A capstone course designed to provide structure and guidance in preparation for the NCLEX-RN and in finalizing a fully developed portfolio in compliance with Southwestern's Quality Enhancement Plan. **This course fulfills the requirement for a capstone/portfolio completion course with components as specified in Southwestern's Quality Enhancement Plan.** 1 hour seminar. Pass/no pass course. (Spring)

**NURS 429 - Nursing Capstone for RNs (1 hour)**

Prerequisites: Enrolled in RN to BS program; must be taken last semester of nursing program.

A capstone course designed for B.S. completion students. Course content is designed to provide structure and guidance in portfolio completion and professional development. **This course fulfills the requirement for a capstone/portfolio completion course with components as specified in Southwestern's Quality Enhancement Plan.** Pass/no pass course. (Spring)

**NURS 491 - Selected Topics in Professional Nursing (1-3 hours)**

Prerequisite: Permission of instructor

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. May be repeated. (Fall, Spring)



## Faculty/Staff

Murray Cox, Chair;

Paulos Berhane, Lawrence Turner

## Aims of the Program

Studying physics can be a valuable part of a broad education. Students who combine mastery of the basic principles and methods of physics with the outlook and adaptability provided by a liberal Christian education will find themselves well-prepared for a variety of careers. Recent physics graduates have gone into top graduate and professional schools and have successfully entered careers in industry.

The objectives of the physics program are to prepare students for a professional career or graduate study, provide the training required by other programs and professional schools, and support the general education program of the University by providing courses of instruction for non-science students.

## Programs

- B.S. Mathematical Physics - 52 hours (30 u.d.)
- B.S. Physical Science - Secondary Certification - 46 hours (32 u.d.)
- Physics Minor - 18 hours (6 u.d.)

### Mathematical Physics, B.S.

MATH 181	Calculus I.....	4
MATH 282	Calculus II.....	4
MATH 283	Calculus III.....	4
MATH 321	Differential Equations.....	3
MATH 361	Introduction to Linear Algebra.....	3
MATH381	Complex Variables.....	3
MATH 411	Numerical Analysis.....	3
MATH 431	Modern Algebra <i>or</i>	
MATH 471	Advanced Calculus.....	3
MATH455	Probability Theory.....	3
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
PHYS 311	Modern Physics.....	3
PHYS 322	Classical Mechanics.....	3
PHYS 351	Electromagnetic Fields.....	3
PHYS 411	Quantum Mechanics.....	3

**Total: (30 upper division) 52**

Required cognates: MATH 201, MATH 485; or CHEM 201; CHEM 111, 112; and CSIS 110; or equivalent.

## Physics

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### Physics Minor

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
PHYS 311	Modern Physics.....	3
PHYS	Electives.....	6
<b>Total: (6 upper division)</b>		<b>19</b>

### 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.*

#### Physical Science with Physics Emphasis, B.S. Secondary Teaching Area

PHYS 112	Introductory Astronomy.....	4
PHYS 121	General Physics I.....	4
PHYS 121	General Physics II.....	4
PHYS 221	General Physics with Calculus I.....	1
PHYS 222	General Physics with Calculus II.....	1
PHYS 311	Modern Physics.....	3
PHYS 322	Classical Mechanics.....	3
PHYS 351	Electromagnetic Fields.....	3
PHYS 411	Quantum Mechanics.....	3
CHEM 111	General Chemistry I.....	4
CHEM 112	General Chemistry II.....	4
CHEM 231	Organic Chemistry I.....	4
CHEM 232	Organic Chemistry II.....	4
CHEM 341	Physical Chemistry I.....	4
<b>Total: (16 upper division)</b>		<b>46</b>

Required cognates: MATH 201 or CHEM 201; MATH 181, 282, 283, 485; and CSIS 110.

### Courses

#### PHYS 101 - Introductory Physics (4 hours)

Prerequisite: SAT mathematics score of at least 500 or an ACT mathematics score of at least 21 or MATH 011 with a grade of A– or MATH 012 with a grade of C– or higher.

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. 3 Lec 3 Lab. (Fall)



**PHYS 112 - Introductory Astronomy (4 hours)**

Prerequisite: SAT mathematics score of at least 500 or an ACT mathematics score of at least 21 or MATH 011 with a grade of A– or MATH 012 with a grade of C– or higher.

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. 3 Lec 3 Lab. (Spring)

**PHYS 121 - General Physics I (4 hours)**

Prerequisite: MATH 121.

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. 3 Lec 3 Lab. (Fall)

**PHYS 122 - General Physics II (4 hours)**

Prerequisite: PHYS 121 with a grade of C– or higher.

Continuation of PHYS 121. 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. 3 Lec 3 Lab. (Spring)

**PHYS 221 - General Physics with Calculus I (1 hour)**

Prerequisite: MATH 181. Corequisite: PHYS 121.

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). (Offered periodically, Fall)

**PHYS 222 - General Physics with Calculus II (1 hour)**

Prerequisite: MATH 181. Corequisite: PHYS 122.

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). (Offered periodically, Spring)

**PHYS 291 - Selected Topics (1 hour)**

Prerequisite: Approval of the department chair.

Study in areas of interest beyond those listed in the bulletin. May include lectures, lab or readings under the direction of a faculty member. Content and method of study to be arranged prior to registration. May be repeated for a total of 2 credits.

**PHYS 305 - Digital Electronics (4 hours)**

Prerequisite: PHYS 122.

An introduction to the theory and application of digital logic circuits. Combinatorial and sequential logic design principles and practices. Microcomputer interfacing: I/O programming, system bus structures, and I/O interfaces. Does not apply toward a Mathematical Physics major or a Physics minor. 3 Lec 3 Lab. (Spring)

### **PHYS 311 - Modern Physics (3 hours)**

Prerequisite: PHYS 122, PHYS 222. Corequisite: MATH 282.

Special relativity and quantum theory applied to atoms, molecules, solids, nuclei, and elementary particles. (Offered periodically, Fall)

### **PHYS 322 - Classical Mechanics (3 hours)**

Prerequisite: PHYS 122, PHYS 222, MATH 283.

The Newtonian dynamics of particles and rigid bodies including central forces, harmonic motion, many particle systems, and an introduction to the formalisms of Lagrange and Hamilton. (Offered periodically, Fall)

### **PHYS 351 - Electromagnetic Fields (3 hours)**

Prerequisite: PHYS 122, PHYS 222, MATH 283.

Electric and magnetic fields in the presence of matter, scalar, and vector potentials, multipole expansions, Poisson's and Laplace's equations, and an introduction to Maxwell's equations. (Offered periodically, Spring)

### **PHYS 411 - Quantum Mechanics (3 hours)**

Prerequisite: PHYS 311, MATH 283.

The Schrödinger equation, operators, angular momentum, perturbation theory, scattering theory, and many particle systems. Techniques from the theory of partial differential equations and linear algebra will be introduced as needed. **This course fulfills the requirement for an upper-division course with components as specified in Southwestern's Quality Enhancement Plan.** (Offered periodically, Spring)

### **PHYS 491 - Selected Topics (1-3 hours)**

Prerequisite: Approval of the department chair.

Study in areas of interest beyond those listed in the bulletin. May include lectures, lab, or readings under the direction of a faculty member. Content and methods of study to be arranged prior to registration. May be repeated for a total of 6 credits.

# Pre-professional Programs

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.

## Pre-Engineering

Advisor: **Paulos Berhane**

Currently Southwestern Adventist University coordinates with Walla Walla University and Andrews University to offer the first year of an undergraduate program in Engineering. <http://mps.swau.edu/pre-eng/>

## 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 History or Social Studies) can be a particularly useful background for law school.

## Pre-Medicine

Advisor: **Suzanne Phillips**

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. <http://biology.swau.edu/careers/premed/premed.html>

## Pre-Pharmacy

Advisor: **Lawrence Turner**

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. <http://mps.swau.edu/pre-pharm/>

# Pre-professional Programs

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## Pre-Physical Therapy

Advisor: **Lawrence Turner**

There are typically two paths for entry into a Doctor of Physical Therapy program:

1. Complete a four-year baccalaureate degree from Southwestern Adventist University that includes a specified list of prerequisites.
2. Complete a three-year program of study including a number of specific prerequisites then transfer to complete a baccalaureate degree and enter a graduate program in Physical Therapy.

Currently Southwestern Adventist University coordinates with Loma Linda University and Andrews University to offer the three-year pre-physical therapy program. <http://mps.swau.edu/pre-pt/>

## Other Pre-professional Programs and Advisors

Pre-Chiropractic	Suzenne Phillips	Biology
Pre-Dental	Suzenne Phillips	Biology
Pre-Dental Assisting	Suzenne Phillips	Biology
Pre-Dental Hygiene	Suzenne Phillips	Biology
Pre-Dietetics & Nutrition	Art Chadwick	Biology
Pre-Occupational Therapy	Lawrence Turner	Math/Physical Sciences
Pre-Optometry	Lawrence Turner	Math/Physical Sciences
Pre-Osteopathy	Art Chadwick	Biology
Pre-Physician Assistant	Art Chadwick	Biology
Pre-Podiatry	Suzenne Phillips	Biology
Pre-Public Health	Lawrence Turner	Math/Physical Sciences
Pre-Respiratory Therapy	Lawrence Turner	Math/Physical Sciences
Pre-Speech Pathology	Lawrence Turner	Math/Physical Sciences
Pre-Veterinary Medicine	Suzenne Phillips	Biology
Pre-X-Ray Technology	Suzenne Phillips	Biology

For Pre-professional programs not described above or with a listed advisor, see Karl Konrad - Math/Physical Sciences Department.

## 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.

### COMD 284 - Introduction to Speech-Language Pathology and Audiology (2 hours)

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. (Spring)

### ENGR 111 - Introduction to Engineering and Design (2 hours)

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. (Fall)

### **ENGR 115 - Introduction to CAD (1 hour)**

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. (Spring)

### **ENGR 116 - CAD Project (1 hour)**

(Prerequisite ENGR 111 and corequisite ENGR115) or (prerequisite ENGL 115 and corequisite ENGR 111.)

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. (Fall, Spring)



# Psychology

## Faculty/Staff

Marcel Sargeant, Chair; Mark Aldridge, Director; Nancy Giraldo

## Aims of the Department

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 which provides a basic understanding of Christian psychological principles and to provide a background for a wide variety of careers that involve working with people.

## Programs

- Psychology, B.S.
- Psychology, B.S. with emphasis in School Guidance.

### Psychology, B.S.

PSYC 212	General Psychology.....	3
PSYC 220	Human Growth & Development.....	3
PSYC 222	Ethics for Mental Health Professionals.....	3
PSYC 244	Courtship, Marriage, and Family.....	3
PSYC 322	Adolescent Psychology.....	3
PSYC 331	Strength in Diversity.....	3
PSYC 340	Abnormal Psychology.....	3
PSYC 360	Personality Theory & Development.....	3
PSYC 445	Deviant Behavior.....	3
PSYC 460	Applied Social Research Methods.....	3
PSYC 470	Counseling Theory & Techniques.....	3
PSYC	Electives.....	3
<b>Total:</b>		<b>36</b>

### Required Cognates:

MATH 241*	Intro to Probability and Statistics.....	3
<i>Choose one of the following series:.....</i>		<b>8</b>
BIOL 101 & 102	Anatomy and Physiology	
BIOL 104 & 105	Human Biology	
BIOL 111 & 112	General Biology	
<b>Total:</b>		<b>11</b>

*\*MATH 110 is prerequisite for this class.*

### Psychology Minor

18 semester hours (9 hours upper division), which must include PSYC 212, 220, and 340.

Psychology majors are expected to be individuals who exhibit high levels of personal and professional integrity as well as academic honesty. In keeping with this expectation, psychology majors who involve themselves in unethical behaviors and/or academic dishonesty may be dismissed from the psychology program.

# Psychology

## Psychology, B.S., emphasis School Guidance

### Psychology Courses:

PSYC 212	General Psychology.....	3
PSYC 220	Human Growth & Development.....	3
PSYC 222	Ethics for Mental Health Professionals.....	3
PSYC 244	Courtship, Marriage, and Family.....	3
PSYC 322	Adolescent Psychology.....	3
PSYC 326	Exceptional Children.....	3
PSYC 340	Abnormal Psychology.....	3
PSYC 360	Personality Theory & Development.....	3
PSYC 445	Deviant Behavior.....	3
PSYC 460	Applied Social Research Methods.....	3
PSYC 470	Counseling Theories & Techniques.....	3
PSYC	Electives.....	3
<b>Total:</b>		<b>36</b>

### Education Courses\* (Early Childhood-Grade 6):

EDUC 254	Introduction to the Teaching Profession.....	3
EDUC 312	Educational Psychology.....	3
EDUC 364	Kindergarten Materials & Methods.....	3
EDUC 382	Reading and Language Arts in the Elem School.....	3
EDUC 386	Mathematics in the Elementary School.....	3
EDUC 413	Science in the Elementary School.....	3
EDUC 421	Language Arts Essential Skills in the Elem School.....	3
EDUC 416	Legal and Philosophical Foundations.....	3
EDUC 434	Classroom Assessment.....	3
EDUC 436	Classroom Management.....	3
EDUC 465	Directed Teaching.....	6
<b>Total:</b>		<b>36</b>

*\* For Education course descriptions, see page 140.*

### Additional Courses:

POLS 211	National and Texas Constitution.....	3
ENGL 464	Advanced Grammar.....	3
<b>Total:</b>		<b>6</b>
MATH 241*	Intro to Probability and Statistics.....	3
Choose one of the following series:.....		8
BIOL 101 & 102	Anatomy and Physiology	
BIOL 104 & 105	Human Biology	
BIOL 111 & 112	General Biology	
<b>Total:</b>		<b>11</b>

*\*MATH 110 is prerequisite for this class.*

## Bachelors of Science in Psychology, emphasis School Guidance

Psychology with emphasis in School Guidance is a composite major thus no minor is required.



This composite major 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).

1. Candidates must have a minimum cumulative GPA of 2.5 or higher
2. Before acceptance all students must submit to, pay for, and pass a criminal background check
3. Candidate is responsible for initiating the application, 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 & Psychology Department, or other work supervisor.

### 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:

1. Maintain a cumulative 2.50 grade point average in all course work.
2. Give evidence of satisfactory professional growth.
3. Show promising development in field experiences.
4. Demonstrate behavior that is ethically and morally responsible.

### Courses

#### **PSYC 212 - General Psychology (3 hours)**

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. (Fall, Spring)

#### **PSYC 220 - Human Growth and Development (3 hours)**

A study of the basic principles of human growth and development. The environmental and psychological functions of human development are examined. Includes case studies. (Fall, Spring)

### **PSYC 222 - Ethics for Mental Health Professionals (3 hours)**

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. **This course fulfills the requirement for UNIV 201: Research in an Academic Discipline as specified in Southwestern's Quality Enhancement Plan.** (Spring)

### **PSYC 244 - Courtship, Marriage, and Family (3 hours)**

Emphasis on dating, engagement, marriage, and successful family life-styles. Good communication and relationship skills are studied. (Fall)

### **PSYC 291 - Selected Topics (1-3 hours)**

Prerequisite: Approval of department chair.

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.

### **PSYC 320 - Parenting Skills (3 hours)**

A study of the care and guidance of the young child. Strategies for handling problems and behaviors are discussed. (Fall)

### **PSYC 322 - Adolescent Psychology (3 hours)**

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.) (Spring)

### **PSYC 326 - Exceptional Children (3 hours)**

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.) (Spring)

### **PSYC 331 - Strength in Diversity (3 hours)**

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 strengths-based analysis of diverse groups. (Spring)

### **PSYC 338 - Conflict Resolution (3 hours)**

Recommended prerequisites: PSYC 212, SOCI 111

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. (Fall)

**PSYC 340 - Abnormal Psychology (3 hours)**

Prerequisite: PSYC 212.

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. (Spring)

**PSYC 360 - Personality Theory & Development (3 hours)**

A study of major theories and the development of personality. (Fall)

**PSYC 410 - Group Therapy (3 hours)**

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. (Fall)

**PSYC 445 - Deviant Behavior (3 hours)**

An examination of what deviant behavior is (including specific examples of behavior which is so labeled) and social explanations for its existence. (Spring)

**PSYC 450 - Psychology of Adulthood and Aging (3 hours)**

A study of adult development covering the full range of adult years from 18 to 100 or more. Consideration is also given to death and dying. Biological, social, and psychological forces that govern the process of development are the focus of the course and how adult differences affect the process and pattern of development. (Spring)

**PSYC 460 - Applied Social Research Methods (3 hours)**

Prerequisite: MATH 241.

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 course fulfills the requirement for an upper-division course with components as specified in Southwestern's Quality Enhancement Plan.** (Also taught as KINT 460.) (Fall)

**PSYC 470 - Counseling Theory & Techniques (3 hours)**

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. **This course fulfills the requirement for a capstone/portfolio completion course with components as specified in Southwestern's Quality Enhancement Plan.** (Spring) Senior year only.

**PSYC 480 - Psychology Internship (1-6 hours)**

Prerequisite: Senior status, cumulative GPA 2.8, and approval of department director.

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.

### **PSYC 491 - Selected Topics (1-3 hours)**

Prerequisite: Approval of the department director.

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.

Faculty/Staff

Ingo Sorke, Chair  
John Peckham, Jorge Rico, Lloyd Willis  
Adjunct: Heather Crews, Keith Gray, Bill Kilgore, Russ Laughlin, Theodore Stewart

Aims of the Department

Through the Religious Education emphasis at Southwestern Adventist University, students will be able to:

- read the Bible perceptively
- understand the Christian worldview
- integrate the contributions of Seventh-day Adventism
- be disciples of Christ and active members of their local congregations

Specifically, theological training facilitates 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 local church and global mission within a Seventh-day Adventist context. We integrate a multifaceted matrix of Inspiration - Implication - Implementation and Involvement.

Programs

Besides providing courses designed to develop religious insights and skills in all students of the University, the department offers several programs to meet specific needs:

- B.A. Theology (Professional - for Pastoral Work and Seminary)
- B.A. Religion (for General Study Purposes)
- Minor in Religion
- Minor in Biblical Languages
- Certificate Program (p. 121)

Religion, B.A.

RLGN 101	Christian Beliefs.....	3
RLGN 207	Research in Religion.....	1
RLGN 211	Life and Teachings of Jesus.....	3
RLGN 230	History of the SDA Church.....	3
RLGN 313	Prophetic Studies.....	3
RLGN 331	History of Christianity I.....	3
RLGN 332	History of Christianity II.....	3
RLGN 410	Biblical Studies Seminar I <i>or</i> .....	
RLGN 411	Biblical Studies Seminar II.....	3
9 hours from the following:		
RLGN 315, 316	Old Testament I, II	
RLGN 317, 318	New Testament I, II.....	9
Total:		31

Religion

Theology, B.A.

RLGN 101	Christian Beliefs.....	3
RLGN 207	Research in Religion.....	1
RLGN 211	Life and Teachings.....	3
RLGN 220	Christian Witnessing.....	3
RLGN 230	History of the SDA Church.....	3
RLGN 313	Prophetic Studies.....	3
RLGN 320	Ellen White Writings.....	3
RLGN 323	Homiletics I.....	3
RLGN 324	Homiletics II.....	3
RLGN 332	History of Christianity II.....	3
RLGN 405	Biblical Theology.....	3
RLGN 410	Biblical Studies Seminar I <i>or</i> .....	
RLGN 411	Biblical Studies Seminar II.....	3
RLGN 423	Intro to Pastoral Ministry I.....	3
RLGN 424	Intro to Pastoral Ministry II.....	3
RLGN 425	Field Evangelism.....	3
RLGN 427	Hospital Ministry.....	1

9 hours from the following:

RLGN 315, 316	Old Testament I, II	
RLGN 317, 318	New Testament I, II.....	9
<b>Total:</b>		<b>53</b>

Required cognates:

COMM 111	Fundamentals of Speech.....	3
HIST 331	History of Christianity I.....	3
PSYC 212	General Psychology.....	3

A Biblical Languages Minor is required to complete the Theology Program and for Seminary entrance.

*Electives*

HIST 364	Ancient Cultures.....	3
NURS 491	Selected Topics: Frontier Missions.....	1
Selected Topics: Frontier Missions		

Biblical Languages Minor

RELL 240, 241	Elements of New Testament Greek.....	9
RELL 340	Intermediate New Testament Greek.....	3
RELL 343, 344	Elements of Biblical Hebrew I & II.....	6
RLGN 314	Origin & Development of the Bible.....	3
<b>Total:</b>		<b>21</b>

**Religion Minor**

RLGN 101	Christian Beliefs.....	3
RLGN 211	Life and Teachings of Jesus.....	3
RLGN	Electives.....	6
Select any two classes from the following:		
RLGN 313	Prophetic Studies	
RLGN 315, 316	Old Testament I, II <i>or</i>	
RLGN 317, 318	New Testament I, II.....	6
<b>Total:</b>		<b>18</b>

**Ministerial Program**

The department welcomes persons who are moved to offer their lives in full-time ministry 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 required 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.

**B.A. in Theology**

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. 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 student pastoral program, and increased likelihood of future employment by a conference and it also gives eligibility 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 (RLGN 425) during the summer prior to taking Introduction to Pastoral Ministry (RLGN 423, 424). The Field Evangelism course (RLGN 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 (RLGN 425) is a prerequisite for Introduction to Pastoral Ministry (RLGN 423, 424) and is an integral part of the theology degree. Theology graduates will subsequently proceed to the Seminary for in depth training after field experience (e.g., Associate Pastor with a conference).

## Religion

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Theology students are encouraged to become involved in witnessing and spiritual activities throughout their time in college. However, the last two years are particularly focused on ministry; they are therefore required to participate in the student pastoral program as well as be involved in other conference evangelism programs. The student pastoral program is coordinated by the Southwestern Adventist University Religion Department in conjunction with the Texas Conference and the Southwest Region Conference.

### 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.

Since graduates from the department will desire and need recommendation from the Religion Department in order to be seriously considered for ministerial work and for admission to the Theological Seminary, a progressive procedure for guidance of prospective ministerial candidates has been set up. At the end of the first semester of the sophomore year, a personality profile inventory is administered to all those pursuing the theology program. After the inventory is processed, the student consults with the Counseling & Testing Center to analyze the results. The inventory is also utilized during a Senior interview to provide the student an opportunity for self-evaluation and reflection on personal growth.

Continuation in the theology program is at all times contingent upon the student's 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.

In fulfillment of the requirements for the classes RLGN 423 & 424 Introduction to Pastoral Ministry, 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.

### Courses

#### **RELL 240 - Elements of New Testament Greek I (5 hours)**

#### **RELL 241 - Elements of New Testament Greek II (4 hours)**

An introductory study of the elements of New Testament Greek. Emphasis on the fundamentals of grammar and vocabulary. Translation from selected NT passages. One semester may be applied toward general education religion requirements. (RELL 240 Fall, RELL 241 Spring)

#### **RELL 340 - Intermediate New Testament Greek (3 hours)**

Continued reading in the Greek New Testament with emphasis on grammar and syntax, with interpretive translation of selected portions of the New Testament. (Summer) Includes preparation for the Seminary Greek exam.



**RELL 343, 344 - Element of Biblical Hebrew I, II (3, 3 hours)**

An introductory course in the elements of Biblical Hebrew with emphasis on basic grammar and a working vocabulary. Translation from selected OT passages. The second semester will include grammar review, but will focus on translation from selected Old Testament passages. (RELL 343 Fall, RELL 344 Spring) Includes preparation for the Seminary Hebrew exam.

**RELL 491 - Selected Topics (1 hour)**

Prerequisite: Approval of department chair

A study in an area of student 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.

**RLGN 101 - Christian Beliefs (3 hours)**

A study of the basic concepts of Christian faith and practice with emphasis on fundamental doctrines held by Seventh-day Adventists. (Fall, Spring)

**RLGN 201 - Bible Study Methods (3 hours)**

This course will teach the student a variety of methods for studying the Bible in order to gain a greater understanding of its message. It will contribute to both skill and confidence in the Bible student. (Fall)

**RLGN 207 - Research in Religion (1 hour)**

Prerequisite: CSIS 102, ENGL 121

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. **This course fulfills the requirement for UNIV 201: Research in an Academic Discipline as specified in Southwestern Adventist University's Quality Enhancement Plan.** (Spring)

**RLGN 210 - Introduction to Missions (1 hour)**

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. (Spring)

**RLGN 211 - Life and Teachings of Jesus (3 hours)**

A survey study of the life and teachings of Jesus as outlined in the Gospels. His principles, methods, and teachings are studied in light of their application to modern life. (Fall, Spring)

**RLGN 212 - Basic Christian Ethics (3 hours)**

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. (Fall)

### **RLGN 220 - Christian Witnessing (3 hours)**

A study of the biblical principles of the art and technique of personal evangelism. The student is taught to use the Scriptures effectively, to give specific Bible studies, to meet objections, and to gain decisions for Christ. (Fall, Spring)

### **RLGN 230 - History of the Seventh-day Adventist Church (3 hours)**

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. (Fall, Spring)

### **RLGN 233 - Introduction to Biblical Archaeology (3 hours)**

A study of the history of archaeology, recent achievements, and archaeological method. (Spring)

### **RLGN 271 - Ministries Internship (1-3 hours)**

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.

### **RLGN 285 - Introduction to Church Ministry - Distance Education Program (3 hours)**

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.

### **RLGN 291 - Selected Topics (1-2 hours)**

Prerequisite: Approval of department chair.

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.

### **RLGN 313 - Prophetic Studies (3 hours)**

An introduction to and survey of the books of Daniel and Revelation. The prophetic themes of Daniel and Revelation, important to Seventh-day Adventist theology, will be a major focal point. **This course fulfills the requirement for a capstone/portfolio completion course for Religion Majors with components as specified in Southwestern's Quality Enhancement Plan.** (Spring)

### **RLGN 314 - Origin and Development of the Bible (3 hours)**

A careful study of the history and development of the written material and canon of Scripture, covering Old Testament, intertestamental literature and New Testament. It also reviews the development of the English Bible and seeks to assist in the evaluation of modern versions. (Fall)

**RLGN 315, 316 - Old Testament I, II (3, 3 hours)**

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: Background, Pentateuch, The Writings. Spring topics: Prophets, Historical Books. (RLGN 315 Fall, RLGN 316 Spring)

**RLGN 317, 318 - New Testament I, II (3, 3 hours)**

The world and literature of New Testament, including theme and purpose of each book and applications to Christian life. Fall: Romans-Revelation. Spring: Gospels-Acts. (RLGN 317 Fall, RLGN 318 Spring)

**RLGN 320 - Ellen White Writings (3 hours)**

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. (Spring)

**RLGN 323, 324 - Homiletics I, II (3, 3 hours)**

Prerequisite: COMM 111

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. (RLGN 323 Fall, RLGN 324 Spring)

**RLGN 331, 332 - History of Christianity I, II (3, 3 hours)**

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 HIST 331, 332) (RLGN 331 Fall, RLGN 332 Spring, or both Spring)

**RLGN 355 - Music and Worship (1 hour)**

This course will acquaint the student with the variety of worship structures, musical styles and instruments available for the worship service. Students will be instructed in the purpose and design of worship services, in hymnology, in conducting and in rudimentary part-singing and choral conducting. (Fall or Spring)

**RLGN 405 - Biblical Theology (3 hours)**

Prerequisite: RLGN 101 and at least one of the following: RLGN 315, RLGN 316, RLGN 317, RLGN 318

This course consists of the study of several selected topics approached from a biblical perspective, including 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 Man. These studies will focus upon the contributions of several biblical writers to each doctrinal issue. Some attention will also be given to the way in which selected recent writers have handled the biblical material. (Spring)

### **RLGN 410, 411 - Biblical Studies Seminar I, II (3, 3 hours)**

Prerequisites: RLGN 315, 316, 317 or 318

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: O.T. topic/text. Spring semester: N.T. topic/text. **This course fulfills the requirement for an upper-division course with components as specified in SWAU's Quality Enhancement Plan.** (RLGN 410 Fall, RLGN 411 Spring)

### **RLGN 419 - Philosophy of Science (3 hours)**

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.) (Spring)

### **RLGN 420 - Pastoral Practicum (1 hour)**

Prerequisite: RLGN 323, 324 completed or taken concurrently

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. (Fall, Spring)

### **RLGN 423, 424 - Introduction to Pastoral Ministry (3, 3 hours)**

Prerequisites: PSYC 212, RLGN 425

For senior ministerial students. Applied studies in church and ministry, leadership, pastoral care, visitation, counseling, organization and finance, enriched by visits of specialists. This course includes the Seminary's Church Policy exam (successful completion is valid for two years). **These courses fulfill the requirement for a capstone/portfolio completion course with components as specified in SWAU's Quality Enhancement Plan.** (RLGN 423 Fall, RLGN 424 Spring)

### **RLGN 425 - Field Evangelism (3 hours)**

Prerequisite: RLGN 220

This course provides classroom instruction by a successful professional evangelist, accompanied by actual participation in a three-week series of meetings followed by student-led evangelistic meetings. All facets of the course are taught in the city where the series is conducted. Taught on an arranged basis. (Summer)

### **RLGN 427 - Hospital Ministry (1 hour)**

Prerequisite: Admission to junior or senior-level standing.

This course provides opportunity for students to expand mission focus to include ministry in specialized settings. Emphasis is given to the advancement of communication and assessment skills. Concentration will also be placed on the development of personal and professional identity and their related issues. (Spring)

### **RLGN 491 - Selected Topics (1 hour)**

Prerequisite: Approval of department chair

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.

Certificate Program Through Distance Education Program

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 18 semester hours of college credit. These credits may be transferred to any other accredited college or university and may be applied to 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, all 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 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.

Certificate Course Requirements

RLGN 101	Christian Beliefs.....	3
RLGN 211	Life and Teachings of Jesus.....	3
RLGN 220	Christian Witnessing.....	3
RLGN 223	Fundamentals of Church Ministry.....	3
RLGN 230	History of the SDA Church.....	3
RLGN 285	Introduction to Church Ministry.....	3
Total:		18

## Religion

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### Cost of the Certificate

The on-line certificate will follow the tuition and fee policies of the Distance Education Program. DE tuition is currently discounted at 20%. 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.

### Courses

Distance Education Church Ministry on-line Program

### 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, financial aid, academic advising, registration, course materials, degree (certificate) audits, and graduation assistance.

# Trustees

Deryl Knutson, Vice Chair  
 Eric Anderson, Secretary  
 Jeff Bromme  
 Paul Chavez  
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 Ken Finch  
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 Samuel Green  
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 Eunice Warfield  
 Wayne Williams  
 Billy Wright  
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Burleson, Texas  
 Keene, Texas  
 Longwood, Florida  
 Corrales, New Mexico  
 Cleburne, Texas  
 Burleson, Texas  
 Pinehurst, Texas  
 Burleson, Texas  
 Fort Worth, Texas  
 Fort Worth, Texas  
 Searcy, Arkansas  
 Gentry, Arkansas  
 Winter Park, Florida  
 Alvord, Texas  
 Santa Monica, California  
 Oklahoma City, Oklahoma  
 Gaithersburg, Maryland  
 Shreveport, Louisiana  
 Bristow, Oklahoma  
 McAllen, Texas  
 Kettering, Ohio  
 Fort Collins, Colorado  
 Austin, Texas  
 Round Rock, Texas  
 Corrales, New Mexico  
 Burleson, Texas  
 Keene, Texas  
 Burleson, Texas  
 Canadian, Texas  
 Dallas, Texas  
 Cleburne, Texas

\*Emeritus Member Texas Conference President to be named later.





# Administration

Eric Anderson, PhD.....	President
Benjamin McArthur, PhD.....	Vice President for Academic Administration, Accreditation Liaison, Graduate Dean
Larry W. Garrett, BS.....	Vice President for Financial Administration

## Officers of Administration

Eric Anderson, PhD.....	President
Benjamin McArthur, PhD.....	Vice President for Academic Administration, Accreditation Liaison, Graduate Dean
Larry W. Garrett, BS.....	Vice President for Financial Administration

## Administrative Services

Sandie Adams, AS.....	Assistant Financial Aid Director
Enga Almeida, BS.....	Vice President for Enrollment
Tina Bottsford, BS.....	Director for Enrollment
Kip Bowser, BS.....	Director of Client Services
Diem Dennis, MEd.....	Associate Director, Admissions & Records
Robert Gardner, PhD.....	Registrar, Admissions & Records
Keith Gray, MDiv.....	Special Assistant to the President
William Kilgore, DMin.....	Vice President for Spiritual Development
Jason Kowarsch, MA.....	Assistant Director of Admissions and Records
Charles Lewis, BA.....	Director of Information Technology Services
Eder Marski, MBA.....	Systems Administrator
Beverly Mendenhall, BS.....	Alumni Relations Director
Patricia Norwood, BS.....	Assistant Vice President for Student Financial Services
Italo Osorio, EdS.....	Director of Database Application Services
Jerry Potter, MBA.....	Assistant Student Accounts Director
Marsha Rasmussen, AMLS.....	Technical Services Librarian
Uriel Rogers, BS.....	Telecommunications Manager
Elaine Temple, AS.....	Human Resources Director
Gary Temple, MA.....	Vice President for University Advancement
Robert Thompson, BS.....	Network Administrator
Cristina Thomsen, MA, MS.....	Librarian
Duane Valencia, MBA.....	Student Accounts Advisor
Alfredo Vergel, MLS.....	Associate Librarian, Public Services
Sharon Wicker, BBA.....	Accountant
Greg Wicklund, BS.....	Assistant Vice President for Financial Administration
Edna Yanez-Perez, MBA.....	Cashier

## Campus Services

Sean Amos, BS.....	Interim Director for Campus Services
Dorie Cruz, BS.....	Director of Students with Disabilities
Dale Hainey.....	Director for Physical Plant
Donna Morrison.....	Director for Custodial Services
James The, MEd.....	Dean of Men
Darla Sullivan.....	Assistant Director for Food Service
Greg Sullivan, BS.....	Executive Chef/Director for Food Service

**Administration**

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Janelle Williams, MEd..... Dean of Women  
Marcela Wall, MSA.....Director for Bookstore

# Faculty

## Emeriti Faculty

- Clinton J. Anderson, M.A.** Librarian  
*B.A., Andrews University; M.A.T., Andrews University.*
- 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; M.S., in Library Science, University of Southern California.*
- Laurice Durrant, Ed.D.** Nursing  
*B.S., Nursing Union College; Masters, Health Ed., Stanford University; Ed.D., Stanford University.*
- Barbara Harsany, M.S.** PE/Wellness  
*B.S., Walla Walla College, 1959; M.S., University of Southern California, 1962.*
- Morris Lowry, M.A.** History  
*B.A., Pacific Union College; M.A., Texas Christian University; M.A., Seventh-day Adventist Theological Seminary. Additional graduate study at University of Colorado, Texas Christian University.*
- Marie Redwine, Ph.D.** Academic Vice President  
*B.S., Union College; M.S., Northern Illinois University; Ph.D., Texas Woman's University.*
- Herbert J. Roth, Ph.D.** English  
*B.A., Columbia Union College; M.A., University of Maryland; Ph.D., Texas Christian University.*
- Carol Sample, Ph.D.** English  
*B.A., Union College; M.A., East Tennessee State University; Ph.D., Texas Christian University. Additional graduate study at University of Maryland.*
- Erwin Sicher, Ph.D., Ph.D.** Education and Social Sciences  
*B.A., Atlantic Union College; M.A., Pacific Union College; Ph.D., University of Southern California; Ph.D., Texas Woman's University.*
- Charles M. Underhill, Ed.D.** Professor of Education/Religion  
*B.A., Union College; M.A., Colorado State College of Education; Ed.D., Texas A&M University.*
- Arthur L. White, M.B.A.** Business Administration  
*B.S., Walla Walla College; M.B.A., University of Washington. Additional graduate study at University of Washington.*

## Faculty

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### Teaching Faculty

**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.*

**Eric D. Anderson, Ph.D.** Professor of History, 2005  
*B.A., Andrews University, 1970; M.A., University of Chicago, 1972; Ph.D., University of Chicago, 1978.*

**Paulos Berhane, M.S.** Associate Professor of Math/Physical Sciences, 2007  
*B.S., University of Texas at Dallas, 1994; B.S., University of Texas at Dallas, 1994; M.S., University of Texas at Dallas, 2000.*

**Elizabeth Bowser, M.A.** Assistant Professor of History, 2006  
*B.A., Pacific Union College, 1994; M.A., University of California at Riverside, 2000.*

**John W. Boyd, D.A.** Associate Professor of Music, 1998  
*B.A., Walla Walla College, 1969; M.M., Lewis & Clark College, 1974; D.A., University of Northern Colorado, 1998.*

**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.*

**Rodney W. Bussey, Ph.D.** Associate Professor of PE/Wellness, 2002  
*B.Ed., Canadian University College, 1991; M.Ed., Azusa Pacific University, 2002; Ph.D., Texas Woman's 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.*

**Jerry L. Chi, Ph.D., Ph.D.** Professor of Business Administration, 1996  
*B.A., B.A., Taiwan Adventist College, 1987, 1989; M.B.A., Andrews University, 1991; Ph.D., Andrews University, 1995; Ph.D., Illinois State University, 1998.*

**Murray Cox, M.A.** Assistant Professor of Mathematics, 2001  
*B.A., Union College, 1991; M.A., University of California at Riverside, 2000.*

**Rudyard Dennis, D.M.A.** Professor of Music, 2007  
*B.A./B.S., Pacific Union College, 1986; M.Mus., University of Washington, 2001; D.M.A., University of Washington, 2003.*

**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.*

**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;  
*M.Ed., Southwestern Adventist University, 2003.*

**Robert Gardner, Ph.D.** Professor of Sociology, 2009  
*B.A., Pacific Union College, 1969; M.A., Loma Linda University, 1971; Ph.D., University of Utah, 1977.*

**Susan Gardner, Ph.D.** Professor of English, 2007  
*B.A., Walla Walla College, 1970; M.A., University of Utah, 1975; Ph.D., University of Michigan, 1985.*

**Randy Gilliam, Ed.D.** Professor of Education, 1998  
*B.S., Colorado University, 1973; M.Ed., Central State University, 1976; Ed.D., Oklahoma University, 1987.*

**Nancy Giraldo, M.S.W.** Associate Professor of Psychology, 1999  
*B.S., Southwestern Adventist College, 1991; M.S.W., University of Texas at Arlington, 1993.*

**Bonnie Gnadt, Ph.D.** Professor of Nursing, 1988  
*B.S., Union College, 1964; M.S.N., Washington University, 1969; Ph.D., University of North Texas, 2004.*

**Chad Hutchinson, M.S.Ed.** Assistant Professor of PE/Wellness, 2005  
*B.S., Southern Adventist University, 1998 ; M.S.Ed., Southern Adventist, 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.*

**William L. Kilgore, D.Min.** Professor of Religion, 1989  
*B.A., Columbia Union College, 1976; M.Div., Andrews University, 1980; D. Min., Southwestern Baptist Theological Seminary, 2003.*

**Karl Konrad, Ph.D.** Professor of Chemistry, 1968  
*B.A., Andrews University, 1963; M.S., Illinois Institute of Technology, 1966; Ph.D., Illinois Institute of Technology, 1969.*

**Judy Myers Laue, Ph.D.** Professor of English, 2000  
*B.A., Andrews University, 1976; M.A., Andrews University, 1977; Ph.D., University of Southern California, 1988.*

## Faculty

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**Radhames Lizardo, Ph.D.** Professor of Business Administration, 2009  
*B.S.A., Antillian Adventist University, 1982; M.B.A., Interamerican University of Puerto Rico, 1986; M.S.A., University of North Texas, 1997; Ph.D., University of Texas, 2009.*

**Benjamin McArthur, Ph.D.** Professor of History, 2009  
*B.A., Andrews University, 1973; M.A., University of Chicago, 1974; Ph.D., University of Chicago, 1979.*

**Amy McHenry, Ph.D.** Assistant Professor of Biology, 2011  
*B.S., Union College, 2004; Ph.D, Notre Dame, 2009.*

**Peter McHenry, Ph.D.** Assistant Professor of Biology, 2011  
*B.S., Union College; Ph.D., Notre Dame*

**Monica Kowarsch-Martinez, M.A.** ESL, Director, 2004  
*B.S., Southwestern Adventist University, 2001; M.A., The University of Texas at Arlington, 2007.*

**Robert R. Mendenhall, Ph.D.** Professor of Communication, 1970  
*B.S., Pacific Union College, 1967; M.A., Texas Christian University, 1977; Ph.D., University of Texas at Austin, 1994.*

**Judith Foll Miles, M.A.** Associate Professor of Business Administration/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.*

**Vesa T. Naukkarinen, M.S.** Assistant Profesor of PE/Wellness, 2010  
*B.S., Southwestern Adventist University, 1999; M.S., University of North Texas, 2001.*

**John Peckham, M.Div.** Assistant Professor of Religion, 2009  
*B.S., Atlantic Union College, 2003; M.Div., Andrews University, 2005.*

**Suzanne Phillips, Ph.D.** Associate Professor of Biology, 2005  
*B.S., Union College, 1998; Ph.D., Loma Linda University, 2003.*

**Donna Read, M.S.N.** Associate Professor of Nursing, 2008  
*B.S.N., Columbia Union College, 1962; M.S.N., Duke University, 1965; F.N.P., University of Texas at Arlington, 1978; Ranch Management, Teks Christian University, 1995.*

**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.*

**Marcel Sargeant, Ph.D.** Professor of Education, 2002  
*B.S., University of Guyana, 1987; M.A., Andrews University, 1995; Ph.D., Andrews University, 2003.*

**Karen Senecal, M.B.A.** Associate Professor of Business Administration, 2008  
*B.B.A., Southwestern Adventist College, 1981; M.A.T., Andrews University, 1982; M.B.A., University of Texas at Arlington, 1995.*

**Ingo Sorke, Ph.D.** Associate Professor of Religion, 2000  
*B.A., Southwestern Adventist College, 1993; M.Div., Andrews University, 1996; Ph.D., Southwestern Baptist Theological Seminary, 2009.*

**Gerald Springer, Ph.D.** Associate 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.*

**Arthur Schwartz, 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.*

**Cheryl The, M.A.** Assistant Professor of Education, 2010  
*B.S., Pacific Union College, 1983; M.A., Pacific Union College 1987.*

**Daryl D. Thomas, Ph.D.** Professor of Computer Science, 1995  
*B.S., Louisiana State University, 1976; Ph.D., Louisiana State University, 1994.*

**Catherine K. Turner, Ph.D.** Professor of Nursing, 1996  
*B.S., Columbia Union College, 1963; M.S.N., University of Tennessee, 1980; Ph.D., Andrews University, 1995.*

**Lawrence E. Turner, Ph.D.** Professor of Mathematics/Physics, 1996  
*B.S., Pacific Union College, 1968; M.A., Pacific Union College, 1968; M.S., Michigan State University, 1970; Ph.D., Michigan State University, 1971.*

**Lolita Valdez, M.S.** Assistant Professor of Nursing, 1991  
*B.S.N., Mountain View College, 1975; M.S., University of Philippines, 2002.*

**Roberto Valencia, M.A.** Assistant Professor of Modern Languages, 2006  
*B.S., National Autonomous University of Mexico; M.A., Kansas State University.*

**Jonathan Wall, B.Mus.** Instructor in Music, 2009  
*B.Mus., Andrews University, 2005.*

## Faculty

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**Karl G. Wilcox, Ph.D.**

Associate Professor of English, 2006

*B.A., Newbold College, England, 1986; M.Phil, University of St. Andrews, Scotland, 1990; Ph.D., University of Nevada, Las Vegas, 2005.*

**Lloyd A. Willis, Ph.D.**

Professor of Religion, 1989

*B.A., Pacific Union College, Avondale Campus, 1961; M.A., Andrews University, 1970; Ph.D., Andrews University, 1982.*

**Andrew P. Woolley III, Ph.D.**

Professor of English, 1978

*B.A., Southern Missionary College, 1973; M.A., Andrews University, 1974; Ph.D., University of Tennessee, 1978.*

**Randy Yates, M.Ed.**

Assistant Professor Communication, 2004

*B.S., Southwestern Adventist College, 1985; M.S., Sul Ross State University, 1988. Additional graduate study Southwestern Baptist Theological Seminar.*



Adjunct Faculty

<b>Business Administration</b> Chanda Reins, M.B.A. Fred Harder, Ph.D. James Winegardner, J.D.	Business Economics Business
<b>Computer Science</b> Italo Osorio, EdS.	
<b>Education/Psychology</b> Sheralee Thomas, Ph.D.	Education
<b>English as a Second Language</b> Eva Iguaran, A.S. Sheralee Thomas, Ph.D.	
<b>Music and Art</b> Dorla Aparicio, M.M. Joy Chadwick, B.A. Maria Harman, M.M. Ana Scarone, M.Mus. Henry Welch	Music Art Music Music Music
<b>History, Social Science, including Modern Languages</b> Cristina Thomsen, M.A., M.S.,	Geography
<b>Kinesiology</b> Janet Goodman, A.A. Kim Hopps, B.A. Kent Tucker, M.S.	
<b>Math/Physical Sciences</b> George Parry, Ph.D.	Math
<b>Religion</b> Russ Laughlin, M. Div. Theodore Stewart, M. Div.	



# Academic Departments

*First name listed is chair.*

## **Department of Biology, including Clinical Laboratory Sciences**

- Suzanne Phillips, Ph.D.
- Arthur Chadwick, Ph.D.
- Amy McHenry, Ph.D.
- Peter McHenry, Ph.D.
- Arthur Schwarz, Ph.D.

## **Department of Business Administration**

- Jerry L. Chi, Ph.D.
- Radhames Lizardo, Ph.D.
- Judith Miles, M.A.
- Aaron Moses, M.S.
- Karen Senecal, M.B.A.

## **Department of Communication**

- Robert R. Mendenhall, Ph.D.
- Glendal P. Robinson, Ph.D.
- Randy Yates, M.Ed.

## **Department of Computer Science**

- Daryl D. Thomas, Ph.D.
- Miguel Espinosa, M.Ed.
- Judith Miles, M.A.

## **Department of Education & Psychology**

- Marcel Sargeant, Ph.D.
- Mark Aldridge, Ph.D.
- Michael England, Ed.D.
- Randy Gilliam, Ed.D.
- Nancy Giraldo, M.S.W.
- Cheryl The, M.A.

## **Department of English**

- Renard Doneskey, Ph.D.
- Judy Myers Laue, Ph.D.
- Susan Gardner, Ph.D.
- Karl Wilcox, Ph.D.
- Andrew Woolley III, Ph.D.

## Academic Departments

---

### **Department of History, Social Sciences, including Modern Languages**

- R. Steven Jones, Ph.D.
- Elizabeth Bowser, M.A.
- Monica Kowarsch-Martinez, M.S.
- Roberto Valencia, M.A.

### **Department of Kinesiology**

- Vesa Naukkarinen, MS
- Rod Bussey, Ph.D.
- Chad Hutchinson, M.S.Ed.

### **Department of Mathematics & Physical Sciences, including Chemistry, Physics**

- Murray Cox, M.A.
- Paulos Berhane, M.S.
- Gerald Springer, Ph.D.
- Lawrence Turner, Ph.D.

### **Department of Music**

- Jonathan Wall, B.Mus
- John W. Boyd, D.A.
- Rudyard Dennis, D.M.A.

### **Department of Nursing**

- Jean Alway, M.S.N.
- Bonnie Gnadet, Ph.D.
- Ronald Mitchell, Ph.D.
- Donna Read, M.S.N.
- Catherine Turner, Ph.D.
- Lolita Valdez, M.S.N.

### **Department of Religion**

- Ingo Sorke, Ph.D.
- John Peckham, M.Div.
- Jorge Rico, Ph.D.
- Lloyd Willis, Ph.D.

# Committees

Committees of the Faculty for the Academic Year 2011-2012

*First name listed is chair. All University officers are ex-officio members of all committees, standing and ad hoc.*

## Academic Policies

- Ben McArthur, Jerry Chi, Murray Cox, Renard Doneskey, Robert Gardner, Steve Jones, Robert Mendenhall, Suzanne Phillips, Marcel Sargeant, Ingo Sorke, Daryl Thomas, Cristina Thomsen, Vesa Naukkarinen, Andrew Woolley, Nursing Chair, Student Senate President.

## Academic Standards and Practices

- Robert Gardner, Mark Aldridge, Jason Kowarsch, Radhames Lizardo, Suzanne Phillips, Ben McArthur, Marcel Sargeant, Gerald Springer, Karl Wilcox.

## Administrative Council

- Eric Anderson, Enga Almeida, Tom Bunch, Robert Gardner, Larry Garrett, Bill Kilgore, Chas Lewis, Ben McArthur, Patricia Norwood, Gary Temple, Greg Wicklund, VP for Student Services.

## Admissions

- Robert Gardner, Enga Almeida, John Boyd, Murray Cox, Dorie Cruz, Diem Dennis, Susan Gardner, Patricia Norwood, Ben McArthur, Vesa Naukkarinen, VP for Student Services.

## Adult Degree

- Robert Gardner, Jerry Chi, Ben McArthur, Jorge Rico, Marcel Sargeant.

## Assembly

- VP for Student Services, Mark Aldridge

## Athletic Council

- Vesa Naukkarinen, Rodney Bussey, Tom Bunch, Murray Cox, Susan Gardner, Chad Hutchinson, James The, VP for Student Services.

## Campus Events and Scheduling

- Susan Grady, Tina Bottsford, Peggy Garner, Jessica Lozano, Islem Matthey.

## Discipline

- Judy Miles, Jean Alway, Murray Cox, Nancy Giraldo, Marcel Sargeant, James The, Janelle Williams, VP for Student Services.

## Distance Education

- Robert Gardner, Michael England, Steve Jones, John Peckham, Larry Turner, Roberto Valencia, a University librarian.

## Education Admissions

- Marcel Sargeant, Diem Dennis, Michael England, Robert Gardner, Randy Gilliam, Ben McArthur, Cheryl The.

## Committees

---

### **Faculty/Staff Handbook**

- Ben McArthur, Steve Jones, Daryl Thomas, Andrew Woolley.

### **Faculty/Staff Social Activities**

- Loretta Anderson and Donna Read (co-chairs), Tom Bunch, Susan Grady, Bill Kilgore, Bev Mendenhall, Roberto Valencia.

### **General Education**

- Steve Jones, Murray Cox, Robert Gardner, Ben McArthur, Ingo Sorke, Alfredo Vergel, student.

### **Graduate Council**

- Ben McArthur, Jerry Chi, Diem Dennis, Renard Doneskey, Robert Gardner, Jason Kowarsch, Marcel Sargeant, Cristina Thomsen, graduate student.

### **Honors**

- Andrew Woolley, Elizabeth Bowser, Art Chadwick, Rudy Dennis, Renard Doneskey, Ben McArthur, Donna Read, LarryTurner, Current Seminar Faculty, student.

### **Human Subject**

- Bonnie Gnadt, Marcel Sargeant, Gerald Springer, Catherine Turner, Lloyd Willis.

### **Institutional Assessment and Effectiveness**

- Tom Bunch, Murray Cox, Daryl Thomas, Cristina Thomsen, VP for Student Services.

### **Institutional Safetyand Hazardous Material**

- Greg Wicklund, Sean Amos, Dale Hainey, Donna Morrison, Marsha Rasmussen, Gerald Springer, Greg Sullivan, James The, Janelle Williams, VP for Student Services.

### **Marketing and Public Relations**

- Gary Temple, Robert Gardner, Islem Mattey, one faculty, two students.

### **Master Plan**

- Larry Garrett, Eric Anderson, Ben McArthur, Tom Bunch, Daryl Knutson, Gary Temple, four faculty/staff appointed by the president, student.

### **Nursing Admissions**

- Nursing Chair, Enga Almeida, Diem Dennis, Robert Gardner, Ben McArthur, all Nursing faculty.

### **Preprofessional**

- Ben McArthur, Arthur Chadwick, Suzanne Phillips, Gerald Springer, James The, Janelle Williams.

### **President's Council**

- Eric Anderson, Enga Almeida, Larry Garrett, Bill Kilgore, Ben McArthur, Gary Temple.

**Quality Enhancement Plan**

- Andrew Woolley, Murray Cox, Susan Gardner, Bonnie Gnadt, Ben McArthur, Judy Miles, Italo Osorio, Gerald Springer, Cristina Thomsen.

**Rank and Continuous Appointment**

- Ben McArthur, Rudy Dennis, Renard Doneskey, Susan Gardner, Steve Jones, Bob Mendenhall.

**Recruitment**

- Enga Almeida, Bill Kilgore, Ben McArthur, Judy Miles, Patricia Norwood, Greg Sullivan, James The, Janelle Williams, VP for Student Services.

**Retention and First Year Experience**

- Ben McArthur, Enga Almeida, Tom Bunch, Jerry Chi, Dorie Cruz, Robert Gardner, Bill Kilgore, Judy Miles, Patricia Norwood, George Parry, Janelle Williams, James The, Daryl Thomas, Assistant Recruiters.

**Scholar Lecture Series**

- Judy Myers Laue, Elizabeth Bowser, Rodney Bussey, Ben McArthur, Karl Wilcox.

**Scholarship Selection**

- Gary Temple, Darcy Force, Patricia Norwood, James The, Duane Valencia, Janelle Williams, VP for Student Services.

**Spiritual Life**

- Bill Kilgore, Islem Matthey, James The, Janelle Williams, Student Chaplain, Student Association Religious Vice President, Student Association President, Student, Faculty, Senior Pastor and Youth Pastor of the Keene SDA Church.

**Strategic Planning**

- Eric Anderson, Tom Bunch, Larry Garrett, Dale Hainey, Ben McArthur, Daryl Knutson, Robert Mendenhall, Larry Turner, Lloyd Willis, student.

**Student Finance**

- Patricia Norwood, Sandie Adams, Enga Almeida, Dorie Cruz, Robert Gardner, Larry Garrett, Bonnie Gnadt, Ben McArthur, Jerry Potter, Karen Senecal, Greg Wicklund, VP for Student Services.

**Student Life**

- VP for Student Services, Enga Almeida, Bill Kilgore, Greg Sullivan, James The, Janelle Williams, Lolita Valdez, three students.

**Student Missionary**

- Bill Kilgore, Enga Almeida, Tina Bottsford, Patricia Norwood, Ingo Sorke, James The, Lolita Valdez, Janelle Williams, Student Missionary Club President, Four returning student missionaries, VP for Student Services.

**Trust Acceptance**

- Eric Anderson, Larry Garrett, Ben McArthur, Gary Temple.

