

# **Southwestern Adventist University**

**Undergraduate Bulletin 2015-2016**

**Southwestern Adventist University: Undergraduate Bulletin  
2015-2016**

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# Academic Calendar 2015-2016

## Fall Semester, 2015

August	3-18 Mon-Tue	CORE Enrichment
	18-22 Tue-Sat	CORE
	19 Wednesday	ESL Begins
	23 Sunday	Registration
	24 Monday	Instruction Begins, Late Registration Begins
September	28 Friday	Last Day to Register or Add a Class
	7 Monday	School Holiday, Labor Day
	8 Tuesday	International Student Orientation
October	9 Wednesday	Last Day to Withdraw from a Class without receiving a "W"
	9 Wednesday	Enrollment Census
	9 Friday	Fall Holiday
	15 Thursday	Mid-semester
	23 Friday	Deadline for removal of SU'15 Incompletes
November	25 Sunday	Senior General Education Exit Exam <i>or</i>
	28 Wednesday	Senior General Education Exit Exam
	3 Tuesday	Last Day to Withdraw from a Class
	9 Monday	SP'16 Registration Begins
	9-20 2 weeks	Advisement
December	23 Monday	Thanksgiving Break Begins
	30 Monday	Instruction Resumes
	14-16 Mon-Wed	Examinations
	16 Wednesday	Christmas Vacation begins-7:30pm
	16 Wednesday	ESL Completion

## Spring Semester, 2016

January	10 Sunday	Registration
	11 Monday	ESL Begins
	11 Monday	Instruction Begins, Late Registration Begins
	15 Friday	Last Day to Register or Add a Class
	18 Monday	School Holiday, Martin Luther King Birthday
	19 Tuesday	International Student Orientation
February	26 Tuesday	Last Day to Withdraw from a Class without receiving a "W"
	26 Tuesday	Enrollment Census
	19 Friday	Deadline for removal of FA'15 Incompletes
March	2 Wednesday	Mid-Semester
	4 Friday	Spring Break Begins
	14 Monday	Instruction resumes
	28 Monday	Summer Registration Begins
April	31 Thursday	Last Day to Withdraw from a Class
	3 Sunday	Major Field Exit Test
	4 Monday	FA'16 Registration Begins
	4-15 2 weeks	Advisement
May	6 Wednesday	Awards Convocation
	2-4 Mon-Wed	Examinations
	4 Wednesday	ESL Completion

## Academic Calendar 2015-2016

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6 Friday	Senior Consecration
7 Saturday	Baccalaureate
8 Sunday	Commencement

### Summer Semester May 8 - August 19, 2016

#### Undergraduate

May 8 - June 3 (4 weeks)	1st	Final exam June 3
May 8 - June 10 (5 weeks)		Final exam June 10
June 13 - July 15	2nd	Final exam July 15

#### Graduate - MBA (Sundays)

May 8, 15, 22, 29, June 5	1st
June 12, 19, 26, July 3, 10	2nd
July 17, 24, 31, Aug 7, 14	3rd

#### Graduate - MEd

May 10 - August 21  
on campus June 6-24, 2016

#### ADP/Distance Ed Semester

May 8 - August 19

July 8 Friday -- Deadline for removal of SP'16 incompletes.

# About Southwestern

*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.*

## Mission Statement

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

## Vision

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

## Values

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

## Brief History

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

## Geographical Region, Type of Students and Faculty

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

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

## About Southwestern

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### 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.

### Student Learning Outcomes

The University graduate will:

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

### Accreditation and Non-Discrimination Policy

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

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

- 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
- Council of Independent Colleges
- National Association of Independent Colleges and Universities
- Independent Colleges and Universities of Texas
- 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

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

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

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

## Freshman Admission

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

### Regular admission requirements

*Transcript: submit one of the following*

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

*Test Scores: one of the following*

- ACT minimum composite of 17
- SAT minimum of 830 for mathematics and critical reading

### Early Admission Requirements

- Official secondary school transcript with a GPA of 2.50 or above

ACT or SAT will be required to be submitted no later than May 15 for merit scholarship and enrollment in fall. Students whose test scores do not meet the minimum requirement may have their admission status changed from Early to CORE Enrichment.

Recommended high school curriculum

- 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

## Admission

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The University encourages a more rigorous high school program that will increase a student's opportunities for 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*.

## CORE Enrichment

Students who wish to enroll at Southwestern, but fail to meet one of the two minimum admission requirements (GPA or SAT/ACT) must participate in CORE Enrichment. Learning takes place in a three-week session prior to the beginning of the freshman year and provides developmental learning support in the areas of math, reading, and writing. At the end of the session, student progress will be assessed and students will receive new course placements for fall semester. CORE Enrichment includes one (1) credit which will apply toward the requirements for a degree. For information on session fee refer to *Bulletin* section on Finances.

## Transfer Admission

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

## Transfer Admission Requirements

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

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

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

Transfer students who have not completed the general education mathematics requirement and/or the freshman composition requirement prior to enrollment at the University should submit the ACT or SAT for math placement prior to registering for classes. An SAT math score



of 500 or an ACT math score of 21 is a prerequisite for MATH 110. An SAT critical reading score of 450 or an ACT English score of 17 is a prerequisite for ENGL 121.

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

### Admission to the Fire Science Program

1. Meet all admission requirements for enrollment at Southwestern Adventist University.
2. Complete all steps in the Fire Science Application Process.
3. Complete all Fire Science pre-requisites:
  - a. Minimum score of 11 on the Nelson Denny

Students scoring minimums may enter the program on a probationary basis and must take RDNG 021.

- b. Minimum SAT score of 450 in Critical Reading or ACT score of 17 in English

Students scoring minimums may enter the program on a probationary basis and must take ENGL 021.

- c. Minimum of 500 SAT Math or 21 ACT Math

Students scoring below minimums may enter the program on a probationary basis and must take MATH 013.

- d. Minimum score of 70 on the Computer Proficiency Test

Students scoring below 70 may enter the program on a probationary basis and must take CSIS 102.

- e. Minimum high school GPA of 2.75

Transfer students must have a minimum cumulative GPA of 2.5.

### Admission to the Nursing Program

**All Application materials must be submitted, to the Admissions Office, by August 15, application deadline. Late applications and incomplete files will not be considered.**

1. **Apply Online** to Southwestern Adventist University at [www.swau.edu](http://www.swau.edu) [<http://www.swau.edu>]
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 Admissions Office.
3. **Send official transcripts from all schools attended** (high school, colleges and/or universities) to the Southwestern Adventist University Office of Admissions.
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 or positive titer as required by the State of Texas (Tdap, MMR, Varicella, Hepatitis B, Meningitis, Influenza)
  - c. Current TB Test (negative PPD yearly or chest xray every three years)

## Admission

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- d. Current CPR for the Healthcare Provider
5. **Successfully complete at least 49 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.**

**The following are due October 28, 2015:**

- Nursing deposit of \$400
- Drug Testing fee of \$50
- Flu Shot
- Fast pass fingerprints for criminal check
- CPR for Healthcare Provider. Sign up with the nursing office for the October CPR class.

**Nursing Orientation for all new students is mandatory on Thursday, January 7, 2016.**

## Admission of International Students

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

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

Students for whom English is not their native language must demonstrate English language proficiency by submitting one of the following:

- Minimum score on the TOEFL \* (Test of English as a Foreign Language) of 550 on the paper based test, or 225 on the computer based exam, or 75 on the internet based test *or*
- IELTS 6.0
- Minimum score of 3.9 on iTEP.
- 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 Student I-20 process - F1 Visa

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

- Be academically accepted
- Submit legible copy of valid passport
- Submit bank statements that give evidence of support to the financial claims on the certificate of finance form
- Submit the international student deposit of \$1000 which includes the \$100 residence hall room deposit, and a \$100 non-refundable processing fee.
- Pre-payment of \$6500\* for undergraduate students or \$5500\* for ESL students
- Upon receipt of I-20 student must submit payment to SEVIS for I-901.

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

As required by law all international student information is entered in the Student & Exchange Visitor System (SEVIS) when an I-20 is issued including when the student enrolls or does not enroll, falls below a full-load of classes (12 hours), changes their address or withdraws from the university.

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

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

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

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

### English as a Second Language

Students must meet all University admission requirements for acceptance into the ESL program. Non-degree seeking ESL students may enter the ESL program without academic transcripts. However, if the student is a US citizen or permanent resident and is seeking federal aid they must be degree seeking.

### Application Procedure for Admission

Prospective students can apply at no cost online at [www.swau.edu/apply](http://www.swau.edu/apply) or request an application packet from the Enrollment Services Office at [enroll@swau.edu](mailto:enroll@swau.edu).

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

### Commitment Deposit

New students who are accepted must pay a \$50.00 Commitment Deposit in order to reserve their place in the entering class. Priority deadline is May 1 for the fall semester and November 1 for the spring semester. Commitment deposits are applied to the student's account and are none refundable if the student does not enroll.

## Admission

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### 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, or at a Union academy. Students interested in these programs should contact the Office of Admissions and submit an application and a request for registration.

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

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

### Readmission to the University

Students seeking readmission must reapply and submit official transcripts from any subsequent college or university to the Office of Admissions.

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

### Admission of Post-Baccalaureate Students

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

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

## Costs

### Tuition, Room & Board Costs

#### Full-Time Student Package

	Semester	Year
Tuition (12-17 credit hours)	\$ 9,648	\$19,296
SA Fee	110	220
Technology Fee	200	400
<b>Total Tuition and Fees:</b>	<b>\$ 9,958</b>	<b>\$19,916</b>
 Residence hall room	 1,800	 3,600

#### Credit Hour Charge

Courses taken below the 12-17 hour package will be charged at \$804 per credit hour. Courses taken above the 12-17 hour package will be charged at \$568 per credit.

#### Meal Plan Choices (required for resident hall students)

##### Meal Plan

- \$1,900 (per semester - includes \$125 for the Rusty Bucket\*)

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

##### Meal Plan 22

- \$1,100 (per semester)

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

\*The Rusty Bucket Cafe offers a variety of hot meals and made-to-order sandwiches as well as breakfast items, smoothies, snacks and beverages.

Please note these guidelines before selecting a meal plan:

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

Student Package includes:

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

## Finances

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- Diploma
- \*A room in one of the residence halls beginning the Sunday of the week classes begin
- \*Meals at the cafeteria
  - Fall Semester - beginning with the Sunday evening meal the week classes begin
  - Spring Semester - beginning with the Sunday evening meal the week classes begin
  - Reduced hours during Thanksgiving and Spring break
  - The cafeteria website will show the holiday and inclement weather day schedules.
- \*Local telephone service (upon request)
- Use of the following:
  - Library
  - Computer Laboratories
  - Science Laboratories
  - Athletic Facilities
  - Student Center
  - Counseling Services

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

### 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 the 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 relatives (parents, grandparents, or siblings over 24 years of age in an established residence), or
- Be a senior with a good citizenship record, 90+ credit hours, and cumulative GPA of 3.0 or greater

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

#### **Residence Hall Deposit**

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

#### **Private Room Fees**

Private room fees are an additional \$900 per semester subject to space availability, dean approval, and financial clearance.

### Other Tuition and Fees

#### Adult Degree Program

Adult Degree Program tuition is \$643 per credit hour. There are no payment plans for this program. All charges must be covered at the time of registration through aid, credit/debit card and/or cash. ADP Prior Learning Assessment recording fee is \$75 per course. Fire Science Distance Learning Program tuition is \$402 per credit hour. Additional information about the ADP Program can be found on page 67. Because this is a discounted program, no Southwestern scholarships are available to students in this program.

#### Audit Tuition

Tuition to audit a course is \$50 per credit hour, unless it is part of the tuition package. The SA fee and technology fee will be waived, but course and lab fees that are part of an audited class are not waived for audit-only students. Audit-only students will not have access to university services. Some courses are not available for audit.

#### Consortium Agreement

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

#### Education Program Fees

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

#### ESL Orientation Fee

A fee of \$150 will be assessed for this orientation.

#### Freshman Orientation Fee

Attendance at Freshman Orientation is required of all freshmen students. A fee of \$300 will be assessed for this orientation.

#### Course Fees

- Art Class supply fee – \$40
- ACSM Personal Training Certification – \$220
- Advanced Video Production - \$150
- Athletic Fee – \$50
- Audio Production lab fee - \$150
- Business Policies and Strategies – \$110
- Each Biology lab course fee – \$40
- Each Biology course that includes a 4-day field lab – \$140
- Each Chemistry lab course fee – \$40
- Film Production supply fee - \$150

## Finances

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- Golf course fee – \$100
- Independent class fee – \$100 per credit hour
- Media Techniques supply fee - \$150
- Music Ensemble fee – \$50
- Photo and Graphic editing lab fee - \$150
- Photography lab fee - \$150
- Photojournalism lab fee - \$150
- Principles of Active Learning – \$30
- Principles of Marketing fee – \$30
- Video Production lab fee – \$150
- Visual Communication supply fee – \$150

### Examination Fees

- Challenge, waiver, and validation preparation fee - \$75
- CLEP and challenge examination recording fee - \$25
- Michigan Test of English Proficiency - \$25
- Fees for exams such as 'Career, Aptitude, and Personality'; 'CLEP'; 'Michigan Test of English Proficiency'; and 'SAT' or 'ACT' vary by exam. These fees must be paid in advance of taking the exam. Special examinations may also carry a preparation and recording fee.

### General Fees

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

**Technology Fee-** \$200 each semester is required of all students.

### Fees

Fees are non-refundable after close of registration.

### Graduate Program

Graduate Program tuition is \$804 per credit hour. Graduate hours are charged separately from the undergraduate tuition package. For further information about the graduate programs and available scholarships, please refer to the Graduate Bulletin.

### Medical Laboratory Science

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

### Music Lessons

Music lessons are \$275 per semester above the cost of tuition (based on a minimum of ten half-hour lessons). There are no refunds after the second week of the semester.

### Nursing Tuition Surcharge/Program Admission Fee

A \$400 non-refundable nursing subject fee is assessed at the time of acceptance to the Nursing Program.

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



**Psychology Program Fees**

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

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

**Senior Citizens**

The tuition rate for senior citizens (65+) is \$20 per semester hour for courses taken for audit or credit. This does not apply to the distance learning, nursing classes or discounted programs. There must be space available in the class.

**Study Abroad Program**

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

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

**Summer Program**

- Summer school tuition for on-campus courses is 75% of regular tuition.
- On-line courses are charged at 80% of regular tuition.
- Graduate classes are \$804 per credit hour.
- GEOL 240 The Dinosaur field course is \$268 per credit hour.
- HNRS 275 or 375 The Honors Study Tour is \$268 per credit hour.
- CORE Enrichment Program \$400
- BIOL 225 Field Biology is \$268 per credit hour.
- BIOL 325 Field Ecology is \$268 per credit hour.
- KINA 291 Selected Topics (Backpacking) is \$268 per credit hour.

**Student Missionary/Task Force Program Charges**

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

**Other Expenses****Books**

Students are given the opportunity to indicate if they want to charge books to their student account through BBA Corporation, the University textbook provider, during the on-line registration process. Students may charge up to \$700 to their student account per semester.

**Checks**

Returned checks not honored by the bank carry a \$25 charge.

## Finances

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### Field Trip Costs

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

### Fines

An assembly fine of \$10 will be assessed for each absence beyond the two absences allowed in a semester.

The cafeteria will assess fines for infractions of cafeteria policy.

The library will assess fines for overdue library materials and lost items.

Residence halls will assess fines for improper checkouts, lost keys, and infractions of residence hall policies.

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

### Graduation Dues

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

### Identification Card

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

### Insurance

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

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

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

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

### Late Registration Fee

A fee of \$200 cash is required for requests to 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

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

### Payment Plans

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

#### Plan I - Cash

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

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

Under this plan, students are required to pay 63% of the semester charges at registration. Financial aid can be applied to the 63% payment. The remaining balance will be a zero percent interest loan divided equally over four payments due the 10th of each month, as follows:

##### Fall Semester

July 15	Registration payment, minimum of 63% of semester charges
August 10	First payment
September 10	Second payment
October 10	Third payment
November 10	Final payment - balance owed on account

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

##### Spring Semester

December 15	Registration payment, minimum of 63% of semester charges
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## Finances

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

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

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

Under this plan, students are required to pay 63% of the semester charges at registration. Financial aid can be applied to the 63% payment. The remaining balance will be a zero percent interest loan divided equally over three payments due the 10th of each month, as follows:

#### Fall Semester

At Registration	Registration payment, minimum of 63% of semester charges
October 10	First payment
November 10	Second payment
December 10	Final payment - balance owed on account

#### Spring Semester

At Registration	Registration payment, minimum of 63% of semester charges
February 10	First payment
March 10	Second payment
April 10	Final payment - balance owed on account

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

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

### Methods of Payment

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

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

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

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

**Wire Transfer** -- See instructions at [www.swau.edu](http://www.swau.edu) >Finances >Student Accounts >Statements >Methods of Payment

## Refunds

### Tuition, Room & Board Institutional Refund

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

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

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

Refunds are not made on these items:

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

## Finances

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### Financial Aid

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

### Federal Grant Programs

Eligibility for the following programs is based upon receipt and evaluation of the Institutional Student Information Record (ISIR), which is the result of the Free Application for Federal Student Aid (FAFSA). To be guaranteed the maximum award for which the student is eligible, the FAFSA must be completed by Southwestern's priority date of March 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. The annual award ranges from \$626 to \$5,775. Students may receive a lifetime limit of the equivalent of 6 years of undergraduate studies for a baccalaureate degree. Students who receive Pell Grants may have funds available to them for books during the first week of classes each semester. The student may either choose to charge the cost of their books to their student account through the University sponsored bookstore, or, if their aid results in a credit on their account, funds will be given to the student to purchase their books.

### Federal Supplemental Educational Opportunity Grant (FSEOG)

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

### TEACH Grant

This is a non-need based program that provides up to \$4,000 per year to students enrolled in an eligible program and who agree to teach as a highly qualified teacher in a high-need field, at a low-income elementary or secondary school for at least 4 years within 8 years of completing the program for which the TEACH Grant was awarded. Failure to complete the required teaching service results in conversion of the TEACH Grant to a Federal Direct Unsubsidized Loan with interest accruing from the date the grant was disbursed. A student may receive up to \$4,000 per year with an aggregate limit of \$16,000. Applicants must complete a FAFSA, sign an Agreement to Serve, and be completing coursework necessary to begin a career in teaching. A minimum 3.25 cumulative GPA is required. Southwestern will award a TEACH Grant only after the student has been accepted to the Education Program.

### State Grant Programs

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

**Tuition Equalization Grant (TEG)**

The State of Texas has established a program to help equalize tuition between state-sponsored institutions and independent universities. To qualify for this grant a student must establish eligibility through the FAFSA (or TASFA for students who have established domicile in Texas and are not U.S. Citizens or Resident Aliens), be a Texas resident, not be a recipient of an athletic scholarship, and not be enrolled in a theological degree program. Annual awards at Southwestern range from \$100 to \$3,200. Recipients must be enrolled at least three-quarter time. At the end of the academic year in which a student receives a renewal award the student must:

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

**Federal/State Employment Programs**

Eligibility for the following programs is based upon the results of the FAFSA. These programs are designed to give students work opportunities to help with University expenses and obtain experience that will complement each recipient's educational program or career goals. Students indicate on their FAFSA if they want to be considered for a work-study award. Funds are awarded on a first come, first served basis to students who have remaining eligibility for additional aid they may receive during the school year. Southwestern awards approximately \$2,500 for the year. Students receive the portion of their award that is actually earned through their work-study job.

**Federal Work-Study (FWS)**

This is a federal program. Students work on campus, or in a community service job, and are paid at least minimum wage.

**Texas Work-Study (TWS)**

This is a state-sponsored program. Students work on campus and are paid at least minimum wage.

**Student Loan Programs****Federal Student Loans**

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

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### Federal Direct Loan

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

### Federal Unsubsidized Direct Loan

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

### Federal 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 and complete entrance counseling. Exit counseling is required before the student graduates or withdraws from school.

### Federal Direct PLUS Loan

Parents of dependent students may borrow under this loan program. A parent may borrow up to the cost of attendance minus any other aid the student is receiving. Repayment begins on the date of the last disbursement for that loan period.

### State Loan Programs

#### College Access Loan

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

#### B-On Time Loan Program

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



- 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 baccalaureate 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 <https://www.elmselect.com>. There is also an option to search for additional lenders. Southwestern will process loan applications from any legitimate lender. Students and families DO NOT have to select one of the lenders listed on Southwestern's ELM website.

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

When students complete their FAFSA by the March 15 preceding the academic year during which they will enroll, they are guaranteed the maximum in grant money for which they have eligibility.

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

Southwestern requests the following to award aid:

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

## Finances

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### Determining Financial Need

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

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

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

**Financial Need** is the maximum amount of aid a student may receive from all sources when the student accepts any federal or state aid. Aid that is considered a part of the student's aid package includes: Federal loans, grants, and work-study; state loans, grants, and work-study; private scholarships, and educational subsidy. Federal Direct PLUS Loans and Federal Unsubsidized Direct Loans can be considered a part of the Expected Family Contribution.

### Financial Aid Availability

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

- Tuition Equalization Grant (TEG)
- Texas College Work Study
- Texas B-On Time Loan Program
- Texas College Access Loan (CAL)
- Federal Supplemental Educational Opportunity Grant (FSEOG)
- Federal Work Study
- 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 the FAFSA by the priority date. Students are encouraged to submit all required forms early to receive the maximum in available grant money.

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

### Contractual Studies and Financial Aid

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

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

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

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

**Financial Aid Academic Progress Standards**

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

**Qualitative and Quantitative Components**

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

<b>Attempted Hours</b>	<b>Completion Percentage Required</b>
at 23	50%
at 55	58%
at 89	67%
90 +	67%

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

**Maximum Attempted Hours**

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

**Satisfactory Academic Progress Process**

Academic progress will be reviewed at the end of each fall, spring, and summer term. When a student fails to meet the GPA and/or completion percentage standards they will be given a warning semester during which they are asked to complete a Satisfactory Academic Progress Agreement wherein they meet with their advisor three times over the semester. If the student is not making satisfactory academic progress at the end of the warning semester, the student will become ineligible for federal or state aid. To receive financial aid at this stage, the student must submit an appeal based on extenuating circumstances documenting the reason the student failed to make SAP. The appeal and documentation will be reviewed by the Student Finance Committee for approval. A student who does not meet the prescribed academic plan in subsequent semesters, will be ineligible for further federal and state aid and may not receive federal student aid until SAP standards are met. Students who exceed the number of years for completion of a degree must complete a Satisfactory Academic Progress Appeal form to be reviewed by the Student Finance Committee. A hold is placed on the student's federal and state aid until the SAP agreement has been signed, or an appeal has been approved. Appeals may be made for the following reasons: 1) The student has experienced illness; 2) The death of a relative; 3) The student has a degree plan change; 4) The student, out of financial necessity, carried an extremely heavy workload over an extended period of time; 5) Upon recommendation of the Vice President for Academic Administration; 6) At the discretion of the Assistant Financial Vice President for Student Finance.

## Finances

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### Tuition Equalization Grant (TEG) Requirements

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

### Financial Aid Disbursement

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

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

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

### Veteran's Benefits

Students with previous military experience may be eligible for certain benefits. Contact the Department of Veterans Affairs (VA) records center and obtain a certificate of eligibility before school begins. Bring the certification to the Southwestern Adventist University Records Office. After registration, notification of enrollment will be sent to the VA.

### Student Employment

Southwestern Adventist University is committed to providing a campus job to any student taking six or more credit hours. Students apply for a job by going directly to the department for which they wish to work, or by contacting the Student Employment Office. Many campus jobs will require that the student arrange a class schedule that will allow them to work all morning or all afternoon each weekday. Campus employment requires completion of the Federal I-9 form within three days of being hired. A student should be prepared to show documentation of identity and employment authorization.

Departments that hire students include:

- Academic Departments
- Administrative offices
- Building maintenance
- Cafeteria
- Custodial

- E.G. White Research Center
- Grounds
- KGSW Channel 18.1
- Laboratories
- Library
- Media services
- Radio Station 88.3
- Residence Halls
- Security
- Switchboard

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

Students who have chosen a monthly payment plan can receive up to 20% of their paycheck. Students receive their compensation through the Business Office at regularly scheduled payroll periods.

## **Tuition Discounts**

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

Students who take 12 or more ESL credit hours in a semester will receive a tuition discount of \$3,666. No other Southwestern scholarships are available to students during that semester. ESL classes cannot be audited.

### **Lab School Graduate Students**

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

### **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, or Distance Learning. Likewise, private lessons, audits, fees, and laboratory charges are not discounted. See page 11 for definition of PBS. Students receiving the PBS discount do not qualify for other University scholarships.

## **Scholarships**

### **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. Scholarships are disbursed over two semesters in an academic year.

#### **Award**

Southwestern Award of Excellence

\$8,000

## Finances

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### Award

Academic Dean Award	\$7,000
Trustee	\$6,000
Presidential	\$4,000
Achievement	\$3,000

These awards include an additional \$1,000 credited to tuition costs if the student lives in the residence hall. These awards are determined through a combination of the senior mid-year high school cumulative GPA + SAT/ACT scores.

The GPA is multiplied by 12.5. The ACT is multiplied by 1.4 or the SAT (combined Math and Reading scores) is divided by 32. The sum of the GPA and test calculation give a score that determines the award: Southwestern Award of Excellence 91-100; Academic Dean Award 85-90; Trustee Award 80-84; Presidential Award 70-79; Achievement Award 60-69.

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

- 3.5 or greater for the Southwestern Award of Excellence; Academic Dean Award
- 3.25 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 up to the Trustee Award level by improving their GPA. The scholarship increases to the next higher scholarship level when the student:

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

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

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

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

### Leadership Scholarships

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

### Award

Student Association President	\$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

### Award

Senior or Junior class officer	\$1,000
Student Association officer	\$1,000
Pathfinder Team Leadership Training Certificate (TLTC)	\$1,000
Pathfinder Counselor in training (CIT)	\$1,000

### Honors Scholarship

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

Junior	\$1,000
Senior	\$2,000

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

### Southwestern Scholars

Southwestern Scholars Award - includes all Southwestern Scholarships

\$19,296 (Full tuition) awarded to students who achieve the level of

- Finalist in the National Merit or National Achievement Programs
- Semifinalists are awarded \$9,420 (Half tuition)
- National Hispanic Scholar in the National Hispanic Recognition Program
- 99.5 percentile on the ACT or SAT (an ACT composite of 34 or a combined SAT 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. This scholarship, along with all other Southwestern scholarships, cannot exceed tuition. Likewise, credit balances from Southwestern scholarships and resources other than loans will result in a reduction of this scholarship. Students who qualify for both the Freshman Award and the Southwestern Scholars Awards, receive the higher of the two.

### Transfer Scholarship

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

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

All official transcripts from all previously attended colleges must be on file with Southwestern before this scholarship will be awarded. To receive this scholarship, a student must be enrolled for 12 or more credit hours each semester. This scholarship is renewable for two years for students transferring 24-55 credits, and one year for students transferring 56-89 credits. The scholarship is not renewable for students transferring 90+ credits. This scholarship is renewable only for students who are in a good academic standing, who maintain a commendable citizenship record.

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### Need-Based Scholarships

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

### 3-Way Match Scholarship

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

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

### Callicott Scholarship

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

### Pechero Family Scholarship

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

### Southwestern Union Educational Endowment Scholarship

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

- a) are enrolled full time at Southwestern Adventist University
- b) give evidence of commitment to their local church program and willingness to participate in God's work



- c) have an established financial need
- d) maintain an acceptable scholarship and citizenship record

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

### **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.

### **Campus Recreation Scholarship**

The Campus Recreation scholarship is based on the following criteria: academic eligibility, athletic "team sports" membership, exemplary citizenship and financial need assessment. Enrollment and Student Financial Services will assist the Office of Student Services in determining eligibility and amount to be granted.

### **Family Discounts**

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

### **Music Scholarships**

#### **Festival Performance Scholarship**

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

#### **Music Department Scholarship**

Students must pass an audition with a member of the Music Faculty. The student's level of performance and commitment to the ensembles and recital series will determine whether an award is given.

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### Student Missionary & Task Force Worker Scholarships

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

### Summer Ministries Scholarships

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

### Summer Tuition Scholarships

The Summer Tuition Scholarship benefits students who during the summer, as a junior or senior high school student, take GEOL 240 *The Dinosaurs*. The scholarship will be awarded for the fall semester immediately following the enrollment and will be equal to the amount of tuition paid for this summer class.

### Summer Work Scholarship

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

## Working Policy

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

## Endowed Scholarships

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

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

- 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
- T.A. Jack Casey
- Frances I. Clark Scholarship
- Jimmie C. Culpepper Scholarship
- John & Joan Curnow Student Missionary Scholarship
- Dino Dig Field Research Scholarship
- Clarence W. Dortch Scholarship
- Judson N. Durrant Memorial Scholarship
- Edwards-Wiest Scholarship
- Eli Fund
- 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
- Claude Hughes Student Help
- 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
- Raymon & Zora Jean McMullen Scholarship
- Cyril & Marian Miller Scholarship
- Fred B. & Blanche Gilbert Moore Scholarship
- Peggy A. Norris Memorial Scholarship
- Sheree Parris Nudd Communication
- Odyssey Harbor Scholarship

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- 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\*
- Carol Sample and Ben R. Condray Scholarship
- Cree & Mildred Sandefur Scholarship
- School of the Prophets Scholarship
- E. Frank & Joy Hargrove Sherrill Scholarship
- Sicher Family Scholarship
- Villa Gillis Sierk Scholarship
- Marc Simpson Memorial Scholarship
- Eugene Sorensen Scholarship
- Spells Family Scholarship
- Wes Stoops Scholarship Southwestern Union Scholarship
- Student Association Presidents' Scholarship
- Grace E. and Eugene V. Thomsen Memorial 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 on page 1 of this *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.

## Academics

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

### Student Class Load

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

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

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

### 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 88.3 KJRN The Journey, 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 student portal. Official registration dates are published in the academic calendar of the Bulletin. Registration is not finalized until all

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

### **Registration without Official Transcripts**

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

### **Late Registration**

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

### **Changes in Registration**

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

### **Withdrawal from the University**

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

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

### **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 and the Vice President for Academic Administration. The form is available on the University's website and must be completed and submitted to the registrar by the last day to add a class.

Questions regarding selected topics studies in a particular area should be directed to the department chair.

## Academics

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

### Repeating a Course

A course in the major or minor in which a student has earned less than C- must be repeated or, with the consent of the major advisor, may be replaced by another course in the same area. If a student takes a course and then repeats it, the highest grade earned will be used in calculating the GPA, though all grades remain on the permanent record. 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 on behalf of the student to the instructor of the course and his or her department chair. A form for this purpose is available on the University's website. The course fee is listed in the finance section of this *Bulletin*.

### Internship

An internship is an on-the-job, career-oriented course for training in the student's major field. The student must make arrangements with his or her major department prior to starting the



internship. The student must sign a contract outlining the number of hours they are expected to complete, the written and oral assignments involved, evaluations required, etc. Registration must be completed within one academic year of the completion of the internship.

## **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 student portal. Students should check their grade reports carefully. If a student believes any part of the report is incorrect, the corrections must be made within 3 months, unless subject to the Academic Appeals Procedure (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*

\*P and CR represent grades of C or better

### **Incomplete Grades**

A temporary grade of incomplete may be awarded only upon approval and submission by the faculty member involved. Incompletes may not be entered on the faculty portal and

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are submitted directly to the Registrar on a form available on the University's website. 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 on a form available on the University's website. A student who feels that an improper grade has been received must notify the faculty member immediately upon receipt of the grade. All grades are final three months after they are posted.

### Transcript

Southwestern Adventist University transcript services are provided by Parchment Exchange - including requests and payment. The link to this service is located on the University's website: [www.swau.edu](http://www.swau.edu). Costs: electronic transcripts - \$5, paper mailed transcripts - \$7, and additional charges for overnight and international mailings. Currently enrolled Southwestern students and Southwestern Union Conference Teachers need to contact the Registrar at (817) 202-6200. A transcript is not released if a student's financial account is not paid in full.

### Classification of Students

Class standing is calculated after each semester grading period.

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

### Residency

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

### Academic Sanction Policies

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

### Academic Warning

When a student's semester GPA falls below 2.00 while the cumulative GPA remains above 2.00, or in the case of a first-time freshman, the semester GPA and the cumulative GPA fall below 2.00, the student and the advisor will receive a letter indicating the student has been placed on

Academic Warning. There are no restrictions on registration but the student will be encouraged to enroll in UNIV 011 University Strategies the next semester.

### **Academic Probation**

When a student's cumulative GPA falls below 2.00 (except in the case of a first time freshman as noted under "Academic Warning"), or when the student's semester GPA falls below 2.00 for two consecutive semesters, that student is placed on Academic Probation. Transfer students admitted to Southwestern with a GPA lower than 2.00 will also be placed on Academic Probation. The probationary status is communicated in writing to the student and the advisor. The Vice President for Academic Administration and the Center for Academic Success and Advising will monitor the student's progress during the probationary period. A student on Academic Probation must be aware that her/his academic career is in serious jeopardy and that some programs and activities, including financial aid, may not be available.

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

1. Late registration is not allowed
2. Enrollment is limited to 13 semester credit hours and emphasizes repeating classes for which D or F grades were received
3. Enrollment in UNIV 011 University Strategies, unless completed previously
4. Development of a Contract for Academic Success
5. A biweekly conference with the Center for Academic Success and Advising
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 Southwestern Adventist University. A suspended student may apply for readmission to Southwestern Adventist University after successfully completing at least one 12 semester hour term at another school.

### **Academic Dismissal**

Suspended students who are readmitted and who then fail to raise their cumulative GPA, or have a deficiency which makes it unreasonable to anticipate eventual completion of degree requirements, will be academically dismissed.

### **Academic Honors Policies**

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

Special recognition is 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.

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## 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*.

## Examination/Credit Policies

### Final Examinations

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

### Multiple Exams

Students having three or more final exams on the same day may make arrangements with the instructor and the Vice President for Academic Administration two weeks in advance to reschedule one exam at another time during exam week. Forms may be obtained in the Vice President for Academic Administration's Office 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 on the University's website ([www.swau.edu](http://www.swau.edu)). 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 with the Registrar before an examination may be recorded on the transcript or degree audit.

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

### **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 Registrar for evaluation. A detailed list of the CLEP examinations, the required scaled score, and the credit awarded is available on the University's website and from the Registrar. There is a CLEP examination fee and a recording fee.

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

### **Waiver Examinations**

A student may meet an academic requirement such as general education or a course prerequisite by passing a waiver examination. Successful completion of the examination waives the curricular requirement but does not result in credit earned. Thus, it does not reduce the total number of semester credit hours required for a degree, but it will increase the available number of elective hours. The results of a waiver exam are recorded on the student's degree audit but not on the permanent record or transcript. Students must be currently enrolled to be eligible to submit a request for the preparation of a waiver examination. Forms for this purpose are available from the Registrar. There is an examination preparation fee but no recording fee.

### **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 Registrar 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:

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

### Transfer Credit

Generally, college-level courses will transfer if completed with a C- grade or higher through a regionally accredited college. Because of differences in degree requirements and course content, all credits may not apply toward specific graduation requirements. Vocational credits may be accepted for transfer in areas of study offered by the University. Developmental courses, including most English as a Second Language courses, will not be accepted for transfer credit. Although permission to register for off campus classes while enrolled at the University is not required, the registrar will, upon request, verify the transferability of a course offered at another institution. The residency requirement states that the last 38 credit hours earned prior to graduation must include 32 credit hours in residence. This requirement limits transfer credit to 6 semester hours during this time period.

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

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

### Credit for Military Service Schools

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

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

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

1. A certified original of the DD Form 295, *or*
2. A copy of the DD Form 214, *or*

### 3. Course completion certificates.

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

## **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.

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### Baccalaureate Degree

The University awards four types of baccalaureate degrees: the Bachelor of Arts, the Bachelor of Science, the Bachelor of Music 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 120 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. A senior who does not achieve a minimum score of 200 in any section must retake that section or sections. The retake cost is \$30.00 for one section and \$40.00 for more than one section. Students missing the two scheduled testing dates will have to pay \$40.00 to take the test individually at the Counseling Center. All payments must be made in cash.

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

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

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

Two baccalaureate degrees such as a Bachelor of Arts and a Bachelor of Science with majors in different disciplines may be awarded concurrently or sequentially. The candidate must meet all the degree requirements for each major including cognates, general education, the foreign language requirement, the requirement of a minor, a total of 158 semester credit hours, and 32 credit hours in residence.

### Associate Degree

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



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

Associate of Science graduates will

- Complete a minimum of 64 semester credit hours and earn a minimum cumulative grade point average of 2.00
- Complete a minimum of 24 semester credit hours in residence. The last 12 hours before graduation must be taken in residence at Southwestern

Associate in Science graduates will

- Complete a minimum of 64 semester credit hours and earn a minimum cumulative grade point average of 2.00
- Complete a minimum of 24 semester credit hours in residence. The last 12 hours before graduation must be taken in residence at Southwestern
- Complete a major field of specialization with a minimum cumulative grade point average of 2.00 in the major. no class with a grade below C- may apply toward the major
- Complete the general education requirements for the Associate in Science degree

### Associate of Applied Science

Associate of Applied Science graduates will complete the requirements specified on pages 186-188 of this *Bulletin*.

### 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 with the Registrar three semesters before the student expects to graduate.

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

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

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

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

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

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### Graduation Ceremonies

The commencement ceremony is held at the end of the spring semester each year. Students eligible to participate in graduation must complete all arrangements with the Registrar by March 15 to be included in the ceremony.

### Deferred Graduation

Seniors in their last semester, who are registered at the University for all remaining hours and who will 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. Students 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*. All degree requirements must be completed within **six (6) years** of the date of the catalog selected.

### Special Programs

#### CORE Enrichment

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

The Center for Academic Success and Advising (CASA) supports the work of the faculty academic advisors with CORE Enrichment students. Students in this program may have reduced course loads, restrictions on extra-curricular activities, and required dormitory residency. CASA schedules regular academic counseling sessions for each student in the program to make sure that she/he is benefiting from mathematics tutoring, the Write Spot writing center, career counseling, and other programs provided by the University to enhance academic success.

#### Adventist Colleges Abroad

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

#### Student Missions Program

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

The benefits of going as a student missionary or Taskforce worker include improving your Christian walk, travel, learning about a new culture and language, new friends,

scholarships, and strengthening personal resumes. Check out [www.hesaidgo.com](http://www.hesaidgo.com) [<http://www.hesaidgo.com>] for more information.

### Academic Integrity

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

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

#### General responsibilities of students:

1. Students must produce their work independently, except when the professor has assigned the work as a group project.
2. Students must not represent work as their own which is not their own.
3. Students must not aid others in academic dishonesty.

#### Examples of violations:

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

1. **Misusing Sources of Information (Plagiarism).** When using outside sources in a paper, students must cite the source plainly in the text of the paper and on a references page, using the style which their professor requests. Failure to cite sources properly may result in failure on the paper or in the class. Students must cite the source when quoting, when paraphrasing, or even when using an idea which is unique to that source. If a student fails to do so, he or she may be subject to failure in the class. Fabricating a quotation, a paraphrase, or any part of a bibliographic reference also constitutes academic dishonesty. Students may not turn in written work as their own which was produced wholly or partly by others. If a student will receive credit for the work, the student must have, in fact, done the work. Students may not turn in material taken from the Internet as their own work, whether the material was taken from a free website or a pay service. Repeated acts of plagiarism may result in expulsion from the University.
2. **Multiple Submissions.** Students may not submit papers or assignments for credit that have already been submitted or are in the process of being submitted for another course.
3. **Misrepresenting One's Work.** Work that is assigned to the student must be done by the student. Homework assignments in any subject area must be the work of the student getting the credit and must not reflect unauthorized help from others.
4. **Using Unauthorized Materials During an Examination.** Unless the professor indicates otherwise, students should assume that the use of notes, textbooks, the Internet,

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databases, calculators, or any other outside sources of help during an examination, will constitute academic dishonesty.

5. **Exchanging Information During an Examination.** Students may not share information with each other in any form or by any means during an examination. Talking or signaling in any manner during an examination may result in failure on the examination. Obtaining information from another student's paper by any means during an examination is a violation of academic integrity.
6. **Tampering with Computers.** Students may not access faculty computers by any means in order to obtain advance copies of tests or quizzes, alter grades on an online grade book, or for any other purpose.
7. **Forging a Signature.** Students may not sign anyone's name but their own on any advisement form, registration form, exceptions form, or any other document for any purpose whatsoever.
8. **Aiding Others in Academic Dishonesty.** Students who enable others to misrepresent their work are also guilty of academic dishonesty and may be penalized as if they had misrepresented their own work. No student may do the class work for which another student will get credit, except in those cases when the professor has assigned work to be done in a group.

### Procedure to be Followed in Cases of Academic Dishonesty

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

## Student Rights & Appeals Policies

### Student Academic Appeals Process

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

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

### Matters not Grievable

University policies, regulations or procedures adopted by the University and/or the Board of Trustees are not subject to the grievance process. Students may request discussion and recommend changes to such policies, but this dialogue is advisory and not grievable.

### **Initial Appeals Procedure**

1. To initiate the appeals procedure, the student must talk with the course instructor for explanation/review of the decision within three (3) University days of the occurrence. (University days are defined as time during the fall, spring or summer semester that the academic program is in session from registration through final exams).

2. If the problem is not resolved within two (2) University days of talking with the course instructor, the student must obtain an Academic Appeals Review Form from the course instructor's department chair. Within two (2) University days, the student must submit the form with a written summary and talk to the instructor's department chair. The chair has two (2) University days to respond to the student. This completes STEP I on the Academic Appeals Review Form.\*

\*The Nursing Department has an additional grievance policy, which can be found in the Nursing section of the *Bulletin*. The procedure outlined in this policy completes STEP 1 on the Academic Appeals Review Form.

3. If the problem is not resolved, the student has two (2) University days from receipt of the chair's decision to contact the Vice President for Academic Administration, providing the written summary of the complaint and the academic appeals review form. Within two (2) University days the Vice President for Academic Administration will provide a written decision. This completes STEP II on the Academic Appeals Review Form.

### **Formal Appeals Procedure**

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

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

### **Withdrawal of Grievance**

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

### **Student Records - Student Rights (FERPA)**

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

1. The right to inspect and review their education records within 45 days of the day the University receives a request for access. Students should submit to the registrar, head of the academic department, or other appropriate official, written requests that identify the record(s) they wish to inspect. The University official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the University official to whom the request was submitted,

that official shall advise the student of the correct official to whom the request should be addressed.

2. The right to request the amendment of the student's education records that the student believes are inaccurate or misleading. If the University decides not to amend the records as requested by the student, the University will notify the student of the decision and advise the student of his/her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.
3. The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent. One exception which permits disclosure without consent is disclosure to school officials with legitimate education interests. A school official is a person employed by the University in an administrative, supervisory, academic research, or support staff position (including law enforcement unit personnel and health service staff); a person or company with whom the University has contracted (such as an attorney, auditor, or collection agent); or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his/her professional responsibility. FERPA permits the University to disclose any and all education records, including disciplinary records, to another institution at which a student seeks or intends to enroll.
4. The right to file a complaint with the U. S. Department of Education concerning the alleged failures by Southwestern Adventist University to comply with the requirements of FERPA. The name and address of the office that administers FERPA is: Family Policy Compliance Office U.S. Department of Education 400 Maryland Avenue, SW Washington, DC 20202-4605 The University may, at its discretion, publish or release the following information without prior consent unless the student requests in writing that certain information be withheld: Student name, address, telephone listing, enrollment status, class, major field of study, most recent previous school attended, photographs, date and place of birth, participation in officially recognized activities, e-mail address, dates of enrollment, anticipated date of graduation, degrees, awards and honors. The Registrar is responsible for compliance with the provision of this Act. Questions concerning the Family Educational Rights and Privacy Act may be referred to the Records Office.

### **Student Records - Southwestern Adventist University Rights (FERPA)**

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

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

The University will disclose to an alleged victim of any crime of violence or non-forcible sex offense the final results of a disciplinary proceeding conducted by the University against the alleged perpetrator of that crime, regardless of whether the institution concluded a violation

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

## Course 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.

<b>Code</b>	<b>Description</b>
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 2015, 2017, etc.
- (Fall, even years) - taught fall 2016, 2018, etc.
- (Spring, odd years) - taught spring 2017, 2019, etc.
- (Spring, even years) - taught spring 2016, 2018, etc.
- (Fall, Spring) - taught every semester
- (Summer) (Offered periodically)

## Academic Programs

### Bachelor of Arts (BA)

- Biology
- Chemistry
- Communication - emphasis in Advertising and PR, Journalism, Radio-TV-Film
- English
- English - emphasis in writing

## Academics

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- History
- History, International Relations, and Public Policy
- History - Secondary Certification
- Interdisciplinary Studies
- Life Science - Secondary Certification
- Mathematics
- Music
- Religion
- Theology

### **Bachelor of Business Administration (BBA)**

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

### **Bachelor of Music Education (BME)**

### **Bachelor of Music (BMus)**

### **Bachelor of Science (BS)**

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



- Social Studies - Secondary Certification

**Associate of Applied Science (AAS)**

- Fire Science

**Associate in Science (AS)**

- Health and Fitness

**Associate of Science (AS)**

- General Studies

**Minors are available in the following areas:**

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



# 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\* (UNIV 110) (1 hour)
2. English (12 hours)
  - a. Speech (COMM 111, 113, or 115) (3 hours)
  - b. Freshman Composition (ENGL 121) (3 hours)  
To be taken the freshman year.
  - c. Research Writing (ENGL 220) (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 Fitness (4 hours)  
Choose one of these options:
  - a. Health and Wellness (KINT 111) and one KINA course (4 hours)
  - b. Nutrition (KINT 216), Physical Fitness (KINA 111) (4 hours)
  - c. Physical Fitness (KINA 111) and three different KINA courses (4 hours)
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)  
Religious education at Southwestern Adventist University facilitates the understanding, appreciation, and application of: the Bible, a Christian worldview, and Seventh-day Adventism. 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 U.S. history and 3 hours non-U.S. 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 (0-8 hours)  
The Bachelor of Arts degree, and some other degrees, require either 6 semester credit hours of one foreign language at the intermediate level or 8 semester credit hours each of two foreign languages at the elementary level. (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 (UNIV 110) course.

### Associate in Science Degree

1. Principles of Active Learning\* (UNIV 110) (1 hours)
2. English (6 hours)
  - a. Freshman Composition (ENGL 121)\*\* (3 hours)
  - b. Research Writing (ENGL 220) or a Speech elective (COMM 111, 113, or 115) (3 hours)
3. Health and Fitness (2-3 hours)

Choose one of these options:

  - a. Health & Wellness (KINT 111) (3 hours)
  - b. Nutrition (KINT 216) (3 hours)
  - c. Physical Fitness (KINA 111) and one KINA 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 (UNIV 110) course.

\*\* ENGL 220 is required to take the upper division courses in the A.S. degree in Health and Fitness.



# 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

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

## University Experience

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blocking, staging, props and costumes to achieve an overall effect. These performances enrich both the presenters and also the community that views them, as we together experience the best that dramatic culture has to offer about ourselves and our world.

### Rough Writers

Writers meet weekly in The Write Spot to review one another's work, encourage each other in the creative process, and offer suggestions and guidance. This is a great place to network with other faculty, staff, and students who share your love of writing. The Rough Writers present their creative work in public readings and performances.

### Meadows Gallery

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

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

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

### Southwestern's 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.



# Academic Support Services

## 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.

## Center for Academic Success and Advising (CASA)

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

## Counseling and Testing Center

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

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

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

## 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

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### Information Services/Technology

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

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

### Student Services

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

### The Write Spot

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

# 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 8 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 Registrar 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 Director of the Adult Degree Program.

### 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 9 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 44 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 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 provided in the Finances section of this *Bulletin*. 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 48 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 38 to page 57 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 39 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 page 1 of

## Adult Degree Program

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this *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 described in the Finances section of this *Bulletin*. 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 41 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 Registrar 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 Applied Science
  - Fire Science
- Associate of Science
- Bachelor of Science
  - Business
  - Elementary Education
  - General Studies
  - Psychology
  - Social Science
- Bachelor of Arts
  - History
  - Religion
  - 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 provides 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 on the University's website. 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.

### 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 129 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, Marcela 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/Crafts/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)

### **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.

# Allied Health Professions

## Faculty/Staff

Arthur Schwarz, Chair, Department of Biology

Amy McHenry, Advisor, Department of Biology

## Program

Allied Health professions encompass a wide variety of fields that assist in the rapidly growing health care segment of the economy. Over half of all workers in health care belong to one of the many allied health professions. They perform technical and diagnostic work in laboratories or provide direct therapeutic care to patients. Some, as in the fields of nutrition and dietetics, are also involved in health maintenance or with the administration of health care.

Southwestern offers A.S. and B.S. degrees that, in cooperation with Andrews University, Loma Linda University, and Tarleton State University in Texas, prepare one for various health careers. Southwestern's programs include:

- Medical Lab Science (B.S.): affiliated with Andrews University and Tarleton State University
- Pre-Physical Therapy: degree or non-degree programs
- Pre-Allied Health: a flexible two-year Associate of Science degree that will prepare students to apply to Loma Linda University in such fields as:
  - Communication Sciences & Disorders
  - Dental Hygiene
  - Health Information Administration
  - Nutrition and Dietetics
  - Respiratory Care

## Medical Laboratory Science

Southwestern Adventist University offers a Bachelor of Science degree (131-138 semester hours) in Medical Laboratory Science. This degree is offered in affiliation with Tarleton State University in Fort Worth, Texas or Andrews University in Berrien Springs, Michigan. The first three years are completed at the Southwestern Adventist University campus. The fourth year (12-14 months) of the program consists of clinical training to be completed at one of the affiliated hospital-based programs. Tarleton State University starts classes in July and January and may require additional prerequisite classes such as physics and biochemistry. Andrews University classes start in June. The program is accredited by the Council on Allied Health Education and Accreditation in conjunction with the National Accrediting Agency for Medical Laboratory Science.

Each student must apply to the hospital training program of his/her choice, preferably early in the junior year. Acceptance into the Southwestern Adventist University program and declaration as a Medical Laboratory Science major does not imply that the student will be accepted for the senior clinical year by an affiliated hospital program. The student is encouraged to maintain a science and an overall grade point average of 3.0 (on a four-point scale) or higher. The criteria for student selection by an affiliated hospital institution include scholastic ability, completed application materials, letters of reference, and a personal interview. At least 32 of the last 38 semester hours of academic work taken prior to the senior

## Allied Health Professions

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clinical year must be taken in residence at Southwestern Adventist University. Sixteen of the 32 hours must be science courses. English as a Second Language courses are not applicable toward residency.

### Medical Laboratory Science, B.S.

BIOL 111, 112	General Biology.....	8
BIOL 180	Biology Research Seminar.....	1
BIOL 220	Microbiology.....	4
BIOL 280	Biology Research Statistics.....	1
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>

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

**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:</b>		<b>59</b>

### Pre-Physical Therapy

There are two paths available. The first involves completing a B. S. degree in programs such as Exercise Science or Biology, which include many of the prerequisites for admission to doctoral programs in Physical Therapy. Alternatively, one may undertake a three-year program

of prerequisites that will prepare a student to transfer to Andrews' or Loma Linda's Physical Therapy programs.

For information on Andrews University's program go to <http://www.andrews.edu/cas/pt/>

For information on Loma Linda University's program go to <http://www.llu.edu/allied-health/sahp/pt/index.page>

### Allied Health Foundations

This program provides an efficient path for students who wish to apply to the School of Allied Health Professions at Loma Linda University for a baccalaureate degree in one of several allied health fields. A student at Southwestern will complete the 64-hr Associate of Science degree. The requirements for this degree are found on page 49 of this *Bulletin*.

With the guidance of an Allied Health advisor, the student will complete the courses that meet the entrance requirements of the program to which they seek entrance. The web portal will provide each student and advisor with a detailed degree audit of the admissions requirements for the particular program. A cumulative grade point average of at least 3.0 or even higher is necessary in order to be competitive for acceptance at most clinical allied health programs at Loma Linda. No grade lower than a "C" can be transferred to another program.

Information on various allied health careers can be found at Loma Linda University's School of Allied Health Professions website: <http://www.llu.edu/allied-health/index.page>



## Faculty/Staff

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

## 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.

- B.A. Biology
- B.S. Biology
- B.A. Life Science - Secondary Certification
- B.S. Life Science - Secondary Certification
- Minor in Biology, Life Science - Secondary Certification

### Biology, B.A.

BIOL 111, 112	General Biology.....	8
BIOL 180	Research Seminar.....	1
BIOL 230	Ecology.....	4
BIOL 280	Biology Research Statistics.....	1
BIOL 320	Genetics.....	4
BIOL 340	Molecular Biology I.....	4
BIOL 380	Research Proposal Development.....	1
BIOL 419	Philosophy of Science.....	3
BIOL	Elective from Group I.....	4
BIOL 480	Research in Biology.....	1
BIOL 481	Senior Thesis.....	1
BIOL	Electives upper division.....	4
	<b>Total:</b>	<b>36</b>

## Biology

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### Required Cognates:

CHEM 111	General Chemistry I.....	4
CHEM 112	General Chemistry II.....	4
MATH 121	Precalculus.....	3

### Recommended Cognates:

CHEM 231	Organic Chemistry I.....	4
CHEM 232	Organic Chemistry II.....	4

### Biology, B.S.

BIOL 111, 112	General Biology.....	8
BIOL 180	Research Seminar.....	1
BIOL 230	Ecology.....	4
BIOL 280*	Biology Research Statistics.....	1
BIOL 320	Genetics.....	4
BIOL 340	Molecular Biology I.....	4
BIOL 380	Research Proposal Development.....	1
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
BIOL 481	Senior Thesis.....	1
	<b>Total:</b>	<b>40</b>

### Required Cognates:

CHEM 111	General Chemistry I.....	4
CHEM 112	General Chemistry II.....	4
CHEM 231	Organic Chemistry I.....	4
CHEM 232	Organic Chemistry II.....	4
MATH 121	Precalculus.....	3
PHYS 121	General Physics I.....	4
PHYS 122	General Physics II.....	4

\*Must be taken sophomore year; MATH 241 may substitute. Many Texas Medical Schools require MATH 181 or MATH 241.

### Group I

- BIOL 325 Field Ecology
- BIOL 314 Systematic Botany
- BIOL 345 Environment and Mankind
- BIOL 360 Plant Biology
- BIOL 465 Plant Physiology

### Group II

- BIOL 220 Microbiology and Immunology
- BIOL 312 Ornithology
- GEOL 240 The Dinosaurs



**Group III**

- BIOL 335 Limnology
- BIOL 410 Human Physiology
- BIOL 450 Histology

**Minor in Biology**

BIOL 111	General Biology.....	4
BIOL 112	General Biology.....	4
BIOL	Electives 6 upper division.....	10
	<b>Total:</b>	<b>18</b>

**Pre-professional Requirements**

The entrance and admission test requirements for most **medical, dental** and **veterinary** 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 and should consult with his/her pre-professional advisor to develop the best degree plan to satisfy specific pre-professional requirements.

- Recommended courses for pre-professionals: BIOL 111, 112, 410, 450, CHEM 111, 112, 231, 232, 431, PHYS 121, 122, MATH 181, or 241

**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.*

**Option I:**

**Life Science B.A. or B.S. - Secondary Certification**

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

**Option II:**

**Minor in Life Science - Secondary Certification**

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

## Courses

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

Prerequisite: Have a Nelson Denny score of at least 11 or ENGL 121

An integrated two-semester study of the anatomy and physiology of human organ systems with a focus on homeostasis and the role of cellular processes involved with maintaining that homeostasis. 3 Lec 3 Lab. Does not apply toward a biology major or 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)**

Prerequisite: Have a Nelson Denny score of at least 11 or ENGL 121

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. A full sequence of high school biology and chemistry is highly recommended. 3 Lec. 3 Lab (BIOL 111 Fall, BIOL 112 Spring)

### **BIOL 180 - Biology Research Seminar (1 hour)**

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

### **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 225 - Field Biology (4 hours)**

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

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

Prerequisites: 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. (Fall)

**BIOL 280 - Biology Research Statistics (1 hour)**

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

The student will learn basic statistical skills, such as probability, sampling, statistical inference, correlation, regression, curve fitting and Chi-square techniques. The student will become familiar with both traditional and Monte Carlo simulation techniques. (Spring)

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

Prerequisites: 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)**

Prerequisites: 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. (Periodically)

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

Prerequisites: BIOL 111, 112

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

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

Prerequisites: 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 320 - Genetics (4 hours)**

Prerequisites: BIOL 111, 112

The study of inheritance and the molecular mechanisms which impact it with an emphasis on problem-solving and independent laboratory work. Course requirements include an oral presentation and a comprehensive written report of results from a semester-long laboratory project. 3 Lec 3 Lab. (Spring)

### **BIOL 325 - Field Ecology (4 hours)**

Prerequisites: 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. Offered concurrently with BIOL 225. Biology majors or minors should register for BIOL 325.)

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

Prerequisites: 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. (Periodically)

### **BIOL 333 - Parasitology (3 hours)**

Prerequisite: BIOL 111, 112 or permission of instructor

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

### **BIOL 335 - Limnology (4 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, even years)

### **BIOL 340, 341 - Cellular and Molecular Biology I, II (4, 4 hours)**

Prerequisites: BIOL 111, 112; CHEM 232.

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, replication and synthesis, molecular transport, cell signaling, the cytoskeleton, and the extracellular matrix.. 3 Lec (Fall, Spring)

**BIOL 345 - Environment and Mankind (4 hours)**

Environmental science is a discipline that encompasses learning in the sciences, and touches on human development, governance and policy, and ethics. This course will provide the student with the tools to think critically about the environment and how human decisions and activities influence the quality of our lives and the other creatures we share the earth with. We will engage in lecture, discussion, debate and group projects concerning the impact of environmental problems, such as waste management, climate change, water issues, biodiversity, air pollution, human population, and resource use by society. We will also focus on local problems concerning our environment. This course is designed to meet the General Education Science requirement. 3 Lec 3 Lab (Fall)

**BIOL 360 - Plant Biology (4 hours)**

Prerequisites: 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. 3 Lec 3 Lab. (Spring)

**BIOL 380 - Research Proposal Development (1 hour)**

Prerequisites: BIOL 111, 112, 180, 280

A general introduction to the literature and scientific methodology involved with developing research ideas. Students will work individually with a faculty mentor to select a research topic, study the appropriate literature and write a comprehensive proposal for a project to be carried out during their junior and senior years. The course will culminate with oral presentations of research proposals from each student. (Fall)

**BIOL 410 - Human Physiology (4 hours)**

Prerequisites: BIOL 111, 112 or BIOL 101, 102

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)**

Prerequisites: BIOL 111, 112

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

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

Prerequisites: 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)**

Prerequisites: 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. (Fall, odd years)

### **BIOL 455 - Immunology (3 hours)**

Prerequisites: BIOL, 111, 112, 320

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

### **BIOL 465 - Plant Physiology (4 hours)**

Prerequisite: BIOL 111, 112

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 (1-2 hours)**

Prerequisite: BIOL 380 and approval of research advisor

A supervised research experience involving the development of a research proposal, data collection, and a written paper. 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.** (Fall)

### **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)**

Prerequisites: 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. (Offered periodically)





# Business Administration

## Faculty/Staff

Aaron Moses, Chair and Adventist Health System Endowed Chair of Business Administration;  
Fred Harder, Ana Patterson, Chanda Reins

Adjunct: Heath Beaty, Alison Hill, Adam Madgar, Andrew Smith, James Winegardner

## Mission

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

## Aims of the Department

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*.

## Programs

B.B.A. requires 61 hours, B.S. requires 40 hours and minors require 18 hours.

- B.B.A. Accounting
- B.B.A. Finance
- B.B.A. International Business
- B.B.A. Management
- B.B.A. Marketing
- B.B.A. Dual Concentration
- B.S. Business
- Minors in Accounting, Business, Finance, International Business and Marketing

## Degree Requirements

### Business Core Courses

Required of all BBA students.

ACCT 211	Accounting Principles I.....	3
ACCT 212	Accounting Principles, II.....	3
BUAD 203	Research in Business.....	1

## Business Administration

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BUAD 211	Profiles of Entrepreneurship.....	3
BUAD 270	Management Information Systems.....	3
BUAD 301	Principles of Management.....	3
BUAD 311	Business Law.....	3
BUAD 321	Business Finance.....	3
BUAD 460	Ethics and Business Social Responsibility.....	3
BUAD 466	Production and Operations Management.....	3
BUAD 472	Business Policies and Strategies.....	3
BUAD	Portfolio.....	0
ECON 211	Macroeconomics.....	3
ECON 212	Microeconomics.....	3
MKTG 343	Principles of Marketing.....	3
	<b>Total :</b>	<b>40</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 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.

The portfolio is to be turned in to the Business Administration chair two weeks before graduation. Two professors will evaluate the portfolio. **Portfolio fulfills the requirement for assessment of information, technology, writing, critical thinking and research as specified in Southwestern's Quality Enhancement Plan.**

## 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
ACCT	Electives.....	10
	<b>Total:</b>	<b>18</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.....	6
	<b>Total:</b>	<b>18</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 (Finance related).....	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 452	International Finance.....	3
BUAD 453	Cross-Cultural Studies.....	3
BUAD 454	International Management.....	3
MKTG 452	International Marketing.....	3
	Electives.....	6
	<b>Total:</b>	<b>18</b>

*Electives to be selected from the following courses*

BUAD 251	Project Management.....	3
BUAD 317	Business Communication.....	3
BUAD 372	Human Resource Management.....	3
*BUAD 492	Business Internship (International Business related) <i>or</i> Intermediate-Level Language.....	3
*HIST 312/GEOG 317	Historical and Political Geography.....	3
HIST/POLS 320	American International Relations.....	3

\* can be satisfied by at least 1 semester of ACA

## Business Administration

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### 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	Business Communication.....	3
BUAD 372	Human Resource Management.....	3
BUAD 423	Organizational Behavior.....	3
BUAD 454	International Management.....	3
	Electives.....	6
	<b>Total:</b>	<b>18</b>

*Electives to be selected from the following courses*

ACCT 315	Intermediate Accounting I.....	4
ACCT 316	Intermediate Accounting II.....	4
ACCT 317	Cost Accounting.....	3
BUAD 250	Project Management and Leadership.....	1
BUAD 251	Project Management.....	3
BUAD 453	Cross-Cultural Studies.....	3
BUAD 492	Business Internship.....	3
COMM 233	Interpersonal Communication.....	3
MKTG 241	Public Relations.....	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.

MKTG 241	Public Relations.....	3
MKTG 350	Consumer Behavior.....	3
MKTG 351	Advertising.....	3
MKTG 443	Marketing Research.....	3
MKTG 452	International Marketing.....	3
	Electives.....	3
	<b>Total:</b>	<b>18</b>

*Electives to be selected from the following courses*

BUAD 250	Project Management and Leadership.....	1
BUAD 251	Project Management.....	3
BUAD 453	Cross-Cultural Studies.....	3
COMM 247	Publication Design.....	3
COMM 248	Digital Graphic Design.....	3
COMM 335	Persuasion.....	3
COMM 343	Visual Communication.....	3
MKTG 237	Video Production.....	3
MKTG 442	Applied Public Relations and Advertising.....	3
MKTG 492	Marketing Internship.....	3

**B.B.A. Dual Concentration**

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

**Business, 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 311	Business Law.....	3
BUAD 321	Business Finance.....	3
BUAD 460	Ethics and Business Social Responsibility.....	3
BUAD 472	Business Policies and Strategies (Capstone).....	3
MKTG 343	Principles of Marketing.....	3
ECON 211	Macroeconomics.....	3
ECON 212	Microeconomics.....	3
	Electives.....	9
	<b>Total:</b>	<b>37</b>

*Electives will be business classes selected with the aid of the student's advisor*

**Minor in Accounting**

ACCT 211	Accounting Principles I.....	3
ACCT 212	Accounting Principles II.....	3
ACCT 315	Intermediate Accounting I.....	4
ACCT 316	Intermediate Accounting II.....	4
ACCT	Electives upper division.....	4
	<b>Total:</b>	<b>18</b>

**Minor in Business**

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

## Business Administration

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### Minor in 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.....	3
	<b>Total:</b>	<b>18</b>

*Electives to be selected from the following courses*

BUAD 383	Finance Theory and Structure.....	3
BUAD 422	Portfolio Management.....	3
BUAD 493	Money & Banking.....	3

### Minor in International Business

ACCT 211	Accounting Principles I.....	3
BUAD 321	Business Finance.....	3
BUAD 452	International Finance.....	3
BUAD 453	Cross Cultural Studies.....	3
BUAD 454	International Management.....	3
MKTG 452	International Marketing.....	3
	<b>Total:</b>	<b>18</b>

### Minor in Marketing

ECON 212	Microeconomics.....	3
MKTG 343	Principles of Marketing.....	3
MKTG 452	International Marketing.....	3
MKTG	Marketing Electives.....	9
	<b>Total:</b>	<b>18</b>

## 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. Approximately one-quarter of this course deals with accounting research. 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. (Spring, odd 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. (Also taught as ACCT 512.) (Fall, odd 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. (Also taught as ACCT 515.) (Fall, even years)

### **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)

## Business Administration

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### **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.

## Business Courses

### **BUAD 120 - Personal Finance (3 hours)**

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

### **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.

### **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. Enactus 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 the Enactus team. May be repeated for a total of 3 credits. (Spring)

### **BUAD 270 - Management Information Systems (3 hours)**

Prerequisite: Grade of at least 70 on the computer entrance test, or CSIS 102, or permission of the instructor

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

### **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. (Fall)

### **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.

### **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. (Fall)

### **BUAD 317 - 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)

## Business Administration

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### **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. (Spring)

### **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. (Also taught as BUAD 573.) (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. (Spring, 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. (Fall)

### **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. (Spring, odd years)

### **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.

### **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. (Also taught as BUAD 514.) (Fall)

### **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. (Also taught as BUAD 516.) (Spring, odd years)

### **BUAD 454 - International Management (3 hours)**

Prerequisites: BUAD 301

This course will provide students necessary skills and knowledge to manage within organizations that are multinational. There is an emphasis on the study and analysis of environmental forces, organizational design and organizational strategy in the global environment. (Also taught as BUAD 554.) (Fall)

### **BUAD 460 - Ethics and Business Social Responsibility (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. Portfolio requirement and completion is covered.

**This course fulfills the requirement for a capstone/portfolio completion course and an upper-division course with components as specified in Southwestern's Quality Enhancement Plan.**

Lab Fee. (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. (Also taught as BUAD 588.) (Spring, odd years)

### **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.

## Business Administration

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### **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. (Also taught as BUAD 676.) (Fall, even years)

### **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.**

## 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. (Also taught as COMM 237.) (Spring)

### **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.)

### **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. Lab Fee. (Fall)

### **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, even 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. (Also taught as COMM 351.) (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.

### **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. (Also taught as COMM 442.) (Spring, even 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. (Also taught as BUAD 518.) (Fall, odd years)

### **MKTG 452 - International Marketing (3 hours)**

Prerequisites: MKTG 343

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

### **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

Gerald Springer, Chair; Nicholas Madhiri

## Aims of the Chemistry Program

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

## Programs

- B.A. Chemistry
- B.S. Chemistry
- B.S. Biochemistry
- B.S. Physical Science - Secondary Certification
- Minor in Chemistry

## Chemistry, B.A.

CHEM 111	General Chemistry I.....	4
CHEM 112	General Chemistry II.....	4
CHEM 201	Research Methods in the Physical Sciences.....	1
CHEM 221	Modern Analytical Chemistry.....	4
CHEM 231	Organic Chemistry I.....	4
CHEM 232	Organic Chemistry II.....	4
CHEM 341	Physical Chemistry I.....	4
CHEM 431	Biochemistry I.....	3
CHEM 432	Biochemistry I Lab.....	1
CHEM 462	Inorganic Chemistry.....	3
CHEM 475	Research Methods in Chemistry.....	4
CHEM	Electives upper division.....	4
	<b>Total:</b>	<b>40</b>

### Required cognates:

MATH 181	Calculus I.....	4
PHYS 121	General Physics I.....	4
PHYS 122	General Physics II.....	4

### Recommended cognates:

MATH 282	Calculus II.....	4
MATH 283	Calculus III.....	4
CSIS 110	Principles of Programming I.....	3
PHYS 221	General Physics with Calculus I.....	1
PHYS 222	General Physics with Calculus II.....	1

# Chemistry

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## Chemistry, B.S.

CHEM 111	General Chemistry I.....	4
CHEM 112	General Chemistry II.....	4
CHEM 201	Research Methods in the Physical Sciences.....	1
CHEM 221	Modern Analytical Chemistry.....	4
CHEM 231	Organic Chemistry I.....	4
CHEM 232	Organic Chemistry II.....	4
CHEM 341	Physical Chemistry I.....	4
CHEM 342	Physical Chemistry II.....	4
CHEM 431	Biochemistry I.....	3
CHEM 432	Biochemistry I Lab.....	1
CHEM 462	Inorganic Chemistry.....	3
CHEM 475	Research Methods in Chemistry.....	4
CHEM	Electives upper division.....	4
	<b>Total:</b>	<b>44</b>

### Required cognates:

CSIS 110	Principles of Computer Programming I.....	3
MATH 181	Calculus I.....	4
MATH 282	Calculus II.....	4
MATH 283	Calculus III.....	4
PHYS 121	General Physics I.....	4
PHYS 122	General Physics II.....	4

### Recommended cognates:

MATH 321	Differential Equations.....	3
PHYS 221	General Physics with Calculus I.....	1
PHYS 222	General Physics with Calculus II.....	1
	Intermediate foreign language.....	6

## Minor in Chemistry

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

## Biochemistry, B.S.

BIOL 111	General Biology I.....	4
BIOL 112	General Biology II.....	4
BIOL 340	Cell and Molecular Biology I.....	4
	<i>Electives to be chosen from:</i>	
BIOL 330	Bacteriology & Virology <i>or</i>	
BIOL 410	Principles of Human Physiology <i>or</i>	
BIOL 450	Histology.....	4
CHEM 111	General Chemistry I.....	4
CHEM 112	General Chemistry II.....	4
CHEM 201	Research Methods in the Physical Sciences.....	1
CHEM 221	Modern Analytical Chemistry.....	4
CHEM 231	Organic Chemistry I.....	4
CHEM 232	Organic Chemistry II.....	4



CHEM 341	Physical Chemistry I.....	4
CHEM 431	Biochemistry I.....	3
CHEM 432	Biochemistry I Lab.....	1
CHEM 433	Biochemistry II.....	3
CHEM 434	Biochemistry II Lab.....	1
CHEM 475	Research Methods in Chemistry.....	4
CHEM	Electives upper division.....	4
<b>Total:</b>		<b>57</b>

**Required cognates:**

MATH 181	Calculus I.....	4
MATH 282	Calculus II.....	4
MATH 283	Calculus III.....	4
PHYS 121	General Physics I.....	4
PHYS 122	General Physics II.....	4

**Recommended cognates:**

PHYS 221	General Physics with Calculus I.....	1
PHYS 222	General Physics with Calculus II.....	1
RLGN 419	Philosophy of Science.....	3

**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 201	Research Methods in Physical Science.....	1
CHEM 231	Organic Chemistry I.....	4
CHEM 232	Organic Chemistry II.....	4
CHEM 341	Physical Chemistry I.....	4
CHEM 431	Biochemistry I.....	3
CHEM 432	Biochemistry I Lab.....	1
CHEM 462	Inorganic Chemistry.....	3
CHEM 475	Research Methods in Chemistry.....	4
PHYS 112	Introductory Astronomy.....	4
PHYS 121	General Physics I.....	4
PHYS 122	General Physics II.....	4
PHYS 221	General Physics with Calculus I.....	1
PHYS 222	General Physics with Calculus II.....	1
PHYS 311	Modern Physics.....	3

# Chemistry

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Electives upper division.....	3
<b>Total:</b>	<b>52</b>

## Courses

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

Prerequisite: Appropriate mathematics placement score or MATH 013 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)

## Chemistry

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### **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**

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.

# Communication

## Faculty/Staff

Michael Agee, Chair; Kyle Portbury, Glen Robinson

Adjunct: Milton Siems

## Mission

The mission of Southwestern Adventist University's Department of Communication is to prepare students to be effective Christian communicators. This includes developing skills in personal interaction, writing, speaking, creating media content, and managing the elements of communication technology. In addition, knowledge comes from learning about new forms of convergence and interaction in the areas of radio, television, film, journalism, advertising, public relations, graphic communication, and the Internet.

## Aims of the Department

The aims of Southwestern Adventist University's Department of Communication are to:

- Develop in students the essential skills necessary to enter careers in the communication field of their choice or to enter graduate school.
- Prepare students for executive responsibilities at some point in their careers.
- Establish a connection between communication and a relationship with Jesus Christ.
- Instill in students a desire for long-term growth in communication.

## Facilities and Internships

Communication majors at Southwestern Adventist University choose one of the department's three emphasis areas of study: Advertising & Public Relations (ADPR), 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 18.1
- The Communication Mac Lab

Our Communication Department encourages all upper division majors to complete an off-campus internship in their major emphasis. Even before graduation, and sometimes as a direct result of communication internship positions, many of our majors are hired by these firms, and communication alumni from Southwestern who have continued their education through graduate school have done so very successfully.

## Department Policies

### Withdrawing from or Repeating Courses

Communication majors or minors may withdraw from or repeat a course in their area of emphasis or minor only one time.

# 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 emphases and minors offered by the department. Competence in oral communication is considered to be the completion of required Speech performance courses with a grade of C– or above.

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

## Programs

### B.A. in Communication

- Advertising and PR emphasis
- Journalism emphasis
- Radio-TV-Film emphasis

### B.S. in Communication

- Advertising and PR emphasis
- Journalism emphasis
- Radio-TV-Film emphasis

Minors in Advertising and PR, Communication, Journalism, Radio-TV-Film, and Speech.

## Communication, B.A. Advertising and PR emphasis

COMM 110	Communication Media.....	3
COMM 115	Discussion Techniques.....	3
COMM 127	Photo and Graphic Editing.....	3
COMM 137	Media Techniques.....	3
COMM 224	Photography.....	3
COMM 227	Convergent Journalism.....	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
	<b>Total:</b>	<b>39</b>

## Communication, B.A. Journalism emphasis

COMM 110	Communication Media.....	3
COMM 112	Announcing.....	3
COMM 127	Photo and Graphic Editing.....	3
COMM 137	Media Techniques.....	3

## Communication

COMM 224	Photography.....	3
COMM 227	Convergent Journalism.....	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
	<b>Total:</b>	<b>39</b>

### Communication, B.A. Radio-TV-Film emphasis

COMM 110	Communication Media.....	3
COMM 112	Announcing.....	3
COMM 125	Audio Production.....	3
COMM 137	Media Techniques.....	3
COMM 227	Convergent Journalism.....	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
	<b>Total:</b>	<b>39</b>

### Communication, B.S. Advertising and PR emphasis

COMM 110	Communication Media.....	3
COMM 115	Discussion Techniques.....	3
COMM 127	Photo and Graphic Editing.....	3
COMM 137	Media Techniques.....	3
COMM 224	Photography.....	3
COMM 227	Convergent Journalism.....	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
	<b>Total:</b>	<b>48</b>

### Communication, B.S. Journalism emphasis

COMM 110	Communication Media.....	3
COMM 112	Announcing.....	3
COMM 127	Photo and Graphic Editing.....	3

## Communication

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COMM 137	Media Techniques.....	3
COMM 224	Photography and Editing.....	3
COMM 227	Convergent Journalism.....	3
COMM 230	Broadcast Journalism.....	3
COMM 241	Public Relations.....	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
	<b>Total:</b>	<b>45</b>

### Communication, B.S. Radio-TV-Film emphasis

COMM 110	Communication Media.....	3
COMM 112	Announcing.....	3
COMM 125	Audio Production.....	3
COMM 127	Photo and Graphic Editing.....	3
COMM 137	Media Techniques.....	3
COMM 227	Convergent Journalism.....	3
COMM 230	Broadcast Journalism.....	3
COMM 237	Video Production.....	3
COMM 313	Broadcasting in America.....	3
COMM 332	Electronic Media Management.....	3
COMM 337	Advanced Video Production <i>or</i>	
COMM 437	Film Production.....	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
	<b>Total:</b>	<b>48</b>

### Minor in Advertising and PR

COMM 110	Communication Media.....	3
COMM 137	Media Techniques.....	3
COMM 227	Convergent Journalism.....	3
COMM 241	Public Relations.....	3
COMM 351	Advertising.....	3
COMM 442	Applied Advertising and PR.....	3
	<b>Total:</b>	<b>18</b>

### Minor in Communication

COMM 110	Communication Media.....	3
COMM 137	Media Techniques.....	3
COMM 227	Convergent Journalism.....	3
COMM 343	Visual Communication.....	3
COMM 431	Media Law and Ethics.....	3
COMM 451	Communication Theory.....	3



Total: 18

**Minor in Journalism**

COMM 110	Communication Media.....	3
COMM 137	Media Techniques.....	3
COMM 227	Convergent Journalism.....	3
COMM 230	Broadcast Journalism.....	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	Media Techniques.....	3
COMM 237	Video Production I.....	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., emphasis in Journalism - 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)

## Communication

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### **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 125 - Audio Production (3 hours)**

An introduction to recording and manipulating sound, this course includes segments on sound behavior, equipment and software used for recording and manipulating sounds for broadcast, video, and film; signal processing, editing, and mixing. Supplies fee. (Fall)

### **COMM 127 - Photo and Graphic Editing (3 hours)**

In this course, students will learn how to create and manipulate digital images captured from a camera, a scanner, or from scratch. Students will acquire the ability to manipulate and enhance digital images through the use of selection tools, image adjustments, filters, and blending modes. Supplies fee. (Fall)

### **COMM 137 - 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 224 - Photography (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. The student must furnish a digital camera capable of creating RAW format files. Supplies fee. (Spring)

### **COMM 227 - Convergent Journalism (3 hours)**

Prerequisite: ENGL 121(Grade C- or above)

This course teaches future communication professionals how to write and communicate confidently across media platforms. In addition to learning the basic reporting and interviewing skills needed for all media, students will learn how to repurpose broadcast and print news for the Internet and how to incorporate convergent journalism techniques into other emerging media. Students will also be introduced to the research skills used in the field of communication, produce a short communication research paper, 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 230 - Broadcast Journalism (3 hours)**

Prerequisite: ENGL 121 (Grade C- or above)

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 (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, publics and target audiences, communication concepts and channels, campaigns, and the legal and ethical environment of public relations. (Also taught as MKTG 241.) (Fall)

### **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)

## Communication

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

Prerequisite: COMM 227 or permission of instructor

A continuation of COMM 227, 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 modern multimedia technology. 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 - Advanced Video Production (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 227. 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 227 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. Communication seniors in this course will complete their senior thesis and finalize the contents of their senior portfolio. **This course fulfills the requirement for an upper division course with components as specified in Southwestern's Quality Enhancement Plan.** (Spring, even years)

### **COMM 437 - 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 elements throughout the course as well as discussion integrating and relating the communication theories covered. Communication seniors in this course will complete their senior thesis and finalize the contents of their senior portfolio. **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)**

# Computer Science

## Faculty/Staff

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

## Aims of the Department

The primary mission of the Department of Computer Science is to prepare students for professional work in the field of computer science, within a Christian context. A secondary mission of the Department is to provide service courses in computer science to the University community at-large.

The Department of Computer Science offers a bachelor of science degree program. 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 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
- Minor in Computer Science

## 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.....	4
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
CSIS	Elective upper division.....	3
	<b>Total:</b>	<b>55</b>

## Required Cognates:

PHYS 121	General Physics I.....	4
PHYS 122	General Physics II.....	4
MATH 121	Precalculus.....	3
MATH 181	Calculus I.....	4

## Computer Science

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MATH 241	Intro to Probability & Statistics.....	3
COMM 115	Discussion Techniques.....	3
<b>Total:</b>		<b>21</b>

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, PHYS 305
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.

### Minor in Computer Science

CSIS 110	Principles of Computer Programming I.....	3
CSIS 111	Principles of Computer Programming II.....	3
CSIS 125	Discrete Structures I.....	3
CSIS 211	Data Structures & 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 databases 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. 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 study of the strategic object-oriented approach to problem solving — analysis, design and coding — using the C++ language. There will be a focus on the use of classes to implement abstract data types, thus supporting the modern approach to loosely linked, modular code. The overloading of functions and operators, inheritance, and polymorphism will be studied as abstraction tools. (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 (4 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 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)

### **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

A study of formal language theory, with emphasis on regular and context-free grammars. Topics include: language properties, the Chomsky Hierarchy, Finite State Machines, PDAs, Turing machines, uncomputability, and computational complexity. (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.



# Education

## Faculty/Staff

Marcel Sargeant, Chair; Michael England, Program Director and Certification Officer; Donna Berkner, Cheryl The

Adjunct: Carol Campbell, Carlos Estrada, Mary Jacobs

## Mission

The Education Department of Southwestern Adventist University directly addresses the mission to which the University is committed by preparing individuals in shaping minds, cultivating hearts, and promoting service. The program incorporates a broad liberal arts education as a basis for the more in-depth focus on academic teaching specializations, field based experience, and pedagogy associated with the teaching and learning process. The program prepares individuals for a profession in which they can affect the lives of others in a Christian paradigm.

## Students' Learning Outcomes for Education Preparation Program

- 1) Students demonstrate an understanding of Seventh-day Adventist beliefs, as they seek the integration of faith and learning in the classroom.
- 2) Students acquire critical content and concepts of the curriculum in their field of study, and practice their craft in and outside the classroom.
- 3) Students use a variety of pedagogical approaches for instruction to assist all students in the mastery of the concepts in their field of study with the goal of creating life-long learners.
- 4) Students demonstrate skillful teaching dispositions based on current research, including the pedagogical knowledge necessary in the teaching and learning process, in their area of specialization.
- 5) Students work with others to create a positive climate that supports individual and collaborative learning that encourage positive social interaction, and active engagement in learning.
- 6) Students understand and use multiple forms of assessment to engage learners to take responsibility for their own learning, and to guide the teacher's and learner's in the decision making process.
- 7) Students recognize and demonstrate respect for diversity by employing effective strategies in a multicultural setting.
- 8) Students show a commitment to professional development, making connections between theory and practice in order to become reflective practitioners.
- 9) Students demonstrate a commitment to service as they participate in outreach activities organized by department.

## The Education Preparation Program

The Education Preparation 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.

## Education

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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*.

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 2010.

### Admission to the Education Preparation Program

Admission to the University and admission to the Education Preparation 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 3.0.
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 3.0 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 Education. All applications will be accompanied with the following:

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.
3. A personal background check with satisfactory results. This form can be acquired in the Office of Teacher Education.
4. All potential candidates will have an interview with the Education/Psychology Department professors before being fully accepted into the Education Preparation Program. See Technical Standards in the Pre--Service Teacher Candidate Handbook.

## **Degree Plan**

After the student has been admitted to the Education Preparation Program, they should develop a degree plan with their major advisor and the Department of Education. Secondary candidates will be assigned an advisor in the Education Department. A curriculum matrix degree plan will show the elementary or secondary major the curriculum that is required for both elementary and secondary students desiring certification.

## **Retention in the Education Preparation Program**

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

1. Maintain a cumulative 3.0 grade point average in all course work.
2. Secondary Education certification candidates must have a minimum cumulative GPA of 3.0 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.

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### Admission to Student Teaching

To be eligible for student teaching, students must:

1. Be unconditionally admitted to the Education Preparation Program and approved for student teaching status by the Education Preparation Program Committee.
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 3.0.
3. Secondary Education certification candidates must have a minimum cumulative GPA of 3.0 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. Completed all methods courses in the program.
7. Have a commitment to high moral and ethical standards, as defined by the *Bulletin*.
8. Students planning for S.D.A. certification only must complete at least one module in a multi-grade teaching setting.
9. File an application for student teaching by April 15, including the graduation contract, if planning on student teaching for the following academic year.

The Teacher Education Committee will review all applications to determine eligibility for student teaching. Admission to the Education Preparation Program does not necessarily ensure acceptance into Student Teaching. Appeals to any decision must be made in writing to the Department of Education and Psychology, 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. Students must complete EDUC491-04 and EDUC491-05 and score a minimum of 80% on the posttests to receive approval to take the TExES certification exams
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)
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.
4. All Level Physical Education or Music for Early Childhood-Grade 12 (EC-12).

### SDA 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 90% pass rate by students taking the state certification exams during the last year school year.

### Programs

- B.S. Elementary Education

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 Education Preparation Program consists of three major components; academic foundations (general education), professional development and academic specialization.

### Alternative Certification Program

See page 137.

### A. Academic Foundations

**Required for EC-GR6. (GR8-12, All Level PE or Music K-12 should meet general education requirements on page 60.) 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 Writing.....	3
ENGL 231	American Literature I <i>or</i>	
ENGL 232	American Literature II.....	3

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<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.....	3
POLS 211 Texas & National Constitutions.....	3
<b>Math/Natural and Computer Science</b> .....	<b>12-14</b>
MATH Applied Math and any other College level Math.....	6
Two classes of lab Science	8
One semester of life science and one semester of physical science is required.	
CSIS102 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>
KINT111 Health & Wellness.....	3
P.E. Activity Elective.....	1
<b>Religion**</b> .....	<b>12</b>
RLGN 101 Christian Beliefs.....	3
RLGN 201 Bible Study Methods.....	3
RLGN 230 History of the SDA Church.....	3
Upper Div. Old Testament, New Testament, or other Bible content class.....	3
<b>Principles of Active Learning***</b> .....	<b>1</b>
	<b>Total: 57-59</b>

\* 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

EDUC 254+	Intro to the Teaching Profession.....	3
EDUC 312	Educational Psychology.....	3
EDUC 326	Exceptional Children.....	3
EDUC 350	Educational Technology.....	3

EDUC 385*	Philosophy of Education.....	3
EDUC 434	Classroom Assessment.....	3
EDUC 436	Classroom Management.....	3
EDUC 475, 485	Directed Teaching.....	6
EDUC 496	TExES Review - Pedagogy and Professional Responsibility.....	0
PSYC 220	Human Growth and Development.....	3
<b>Total:</b>		<b>30</b>

**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.

+ not required for Physical Education Majors

**C. Academic Specialization**

**Elementary Education Majors**

**Early Childhood - Grade 6**

ARTS 223	Arts/Crafts/Drama.....	3
EDUC 275	Teaching Culturally Diverse Students.....	3
EDUC 310	Second Language Instruction.....	3
EDUC 364	Kindergarten Materials & Methods.....	3
EDUC 375	Children's Literature and the Teaching of Reading.....	3
EDUC 382	Reading and Language Arts in the Elementary School.....	3
EDUC 386	Mathematics in the Elementary School.....	3
EDUC 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
EDUC 460	Differentiated Instruction for the Elementary Classroom.....	3
EDUC 495	TExES Review - Generalist.....	0
KINT 243	Health and Physical Education in the Elementary School.....	3
MUED 253	Music in the 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 7-12 and shall require completion of a major in one of the following teaching areas:

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

**Option II**

Option two shall prepare the individual to teach in two areas of grades 7-12 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:

## Education

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

### Option III

Option three shall prepare the individual to teach in grades 7-12 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.

It is highly recommended that students consult and follow the suggested class schedule. 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

This course provides students with the opportunity to explore the field of teaching and reflect on their interest in education. Students will also examine current and historical roles, expectations, stereotypes, and characterizations that define teaching as a profession.

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. Pre-service teachers will also engage in activities designed to sharpen critical thinking as well as acquaint themselves with current trends in the discipline of teaching. Pre-service teachers will begin the process of developing their e-portfolio. **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)**

This course will teach students various strategies in studying and teaching the Bible creatively. Students will discover an approach to studying the Bible through active experiences of people in the Bible, creating learning environments, and developing lessons using a model of teaching repertoire. (This class is required for Seventh-day Adventist Denominational Certification, and is also taught as RGLN 201.) Includes field experience. (Fall)

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

Prerequisite: Admission to education preparation 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 education preparation program

Provides pre-service teachers skills to include children of all abilities through appropriate arrangement of the environment. Study will include the characteristics, assessment, admission, review, and dismissal processes for special students requiring individualized or specialized programs. (Also taught as PSYC 326.) (Spring)

**EDUC 350 - Educational Technology (3 hours)**

Prerequisite: Admission to education preparation program

The focus of this course is examining and exploring technology integration strategies within K-12 networked computing environments. Content will include an examination of technology integration techniques using Web 2.0 applications and an in-depth study of methods for integrating the emerging technologies into specific content areas. This class is primarily project-based and **will serve as checkpoint #1 for the education department e-portfolio.** (Spring)

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### **EDUC 364 - Kindergarten Materials and Methods (3 hours)**

Prerequisite: Admission to education preparation program

A course designed to acquaint the pre-service teachers with developmentally appropriate kindergarten curriculum, with emphasis on addressing each child's individual needs, abilities, interests, and cultural diversity. Includes topics such as language and literacy, puppets, dramatic play, art, sensory centers, music and movement, math, science, and social studies. Includes field experience. Implementation of developmentally appropriate practices. (Fall)

### **EDUC 375 - Children's Literature and the Teaching of Reading (3 hours)**

Prerequisite: Admission to education preparation program

A course designed to acquaint the pre-service teachers with the many ways children benefit from literature at different times in their lives and appreciate what happens when a child is engaged by a book; to acquaint the student with the wealth of children's books that are available today and to enable them to make critical judgments about them; and to equip the student with a range of proven strategies to bring children together with books productively and pleasurably. (Fall)

### **EDUC 382 - Reading and Language Arts in the Elementary School (3 hours)**

Prerequisite: Admission to education preparation program

A course designed to acquaint the pre-service teachers with the strategies to help ALL children become better readers through systematic, multimethod, multilevel instruction. The focus will be on essential components of a balanced literacy program (Guided Reading, Self-Selected Reading, and Working With Words), steps for implementation and management, and a variety of classroom activities. Includes field experience. (Fall)

### **EDUC 385 - Philosophy of Education (3 hours)**

Prerequisite: Admission to the education preparation program

This course is to prepare students as they gain a better understanding of their personal philosophy of education while preparing them to enter the classroom. Students will become acquainted with the history of Adventist education as they develop a critical and analytical approach to teaching including describing, analyzing and evaluating the influence of their philosophy in the Seventh-day Adventist classroom.

### **EDUC 386 - Mathematics in the Elementary School (3 hours)**

Prerequisite: Admission to education preparation program

A course designed to acquaint the pre-service teacher with concepts, methods, and available materials for effective mathematics instruction in the elementary school. Creative development of materials and lesson plans are emphasized. (This course does not apply to mathematics requirements.) Includes field experience. (Fall)

### **EDUC 413 - Science in the Elementary School (3 hours)**

Prerequisite: Admission to education preparation program

A course designed to prepare pre-service teachers with practical classroom-tested activities and ideas that are presented on planning, organizing, managing, and assessing an effective guided discovery science program. Students will have opportunities to develop teaching lessons and instruct local area elementary students in a laboratory setting. (This course does not apply to science requirements.) (Spring)

**EDUC 416 - Legal Foundations of Education (3 hours)**

Prerequisite: Admission to education preparation 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. (Fall)

**EDUC 419 - Social Studies in the Elementary School (3 hours)**

Prerequisite: Admission to education preparation 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 education preparation program and EDUC 382

A course designed to acquaint the pre-service teacher with the principles that underlie the writing workshop and the major components that make it work. (Spring)

**EDUC 434 - Classroom Assessment (3 hours)**

Prerequisite: Admission to education preparation program and senior class status

This class prepares pre-service teacher to have a better understanding of classroom learning and assessment. Attention will be given to test construction and evaluation of test results. **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 education preparation program and senior class status

The purpose of this course is to help pre-service teachers develop systematic strategies and techniques for organizing and managing classroom activities and students. Research and practitioner-based models for classroom management will be reviewed and explored. Emphasis will be based upon real-world solutions that prepare pre-service teachers to be effective managers of their classrooms so that student learning is maximized. (Spring)

**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. This course also addresses reading in the content area. Includes field experience. (Fall)

## Education

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### **EDUC 460 - Differentiated Instruction for the Elementary Classroom (3 hours)**

Prerequisite: Admission to the Education Preparation Program.

This course focuses on preparing pre-service teachers for the inclusive classroom setting. Emphasis is placed on understanding how to better meet the needs of the many different learners in classrooms and schools. It provides opportunities to examine the characteristics of a differentiated classroom; how to frame instruction around concepts; and some techniques for differentiating content, process, and product. Special emphasis is given to collaboration, inclusion, exceptionality (including gifted and talented), multi-grade classrooms, individual education, transition plans, effective assessment and instructional procedures and student diversity. (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 pre-service teachers seeking certification in Elementary Education. It requires full-day observations and student teaching in an approved elementary school for fourteen weeks under the direction of supervising teachers. Pass/no pass course.

\*Depends on certification emphasis. (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 pre-service teachers seeking certification in Secondary Education. It requires full-day observations and student teaching in an approved secondary school for fourteen weeks under the direction of supervising teachers. **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)

### **EDUC 491 - Selected Topics (1-2 hours)**

Prerequisite: Admission to Education Preparation 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)

### **EDUC 495 - TExES Review - Generalist (0 credit)**

This course provides a comprehensive and interactive review for the TExES EC-6 Generalist, utilizing a number of strategies to review the domains and competencies required for this exam. Students are required to take this class and must successfully complete this class before being granted approval to take this TExES exam. (Spring of junior year)

### **EDUC 496 - TExES Review - Pedagogy and Professional Responsibility (0 credit)**

This course provides a comprehensive and interactive review for the TExES EC-12 Pedagogy and Professional Responsibility, utilizing a number of strategies to review the domains and competencies required for this exam. Students are required to take this class and must successfully complete this class before being granted approval to take this TExES exam. (Fall of senior year)



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## Other Courses Required

### **ARTS 223 - Arts/Crafts/Drama (3 hours)**

A course of exploratory activities in a variety of two and three dimensional arts and crafts media including methods of Discipline-Based Art Education for children. This class also introduces drama instruction to prepare teachers how to use drama in their classrooms by incorporating short skits and play productions. (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 School (3 hours)**

A course designed to prepare pre-service 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 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.eca.org](http://www.eca.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.

## Education

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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 Generalist
- EC-GR6 Generalist/ESL

### Secondary Areas

- English Language Arts and Reading
- Life Science
- Mathematics
- Social Studies Composite

### All Level Areas

- Music Education
- Physical Education

All classes are online.

## Course of Study for Certification Areas:

### 1. Elementary Education

Early Childhood - Grade 6

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## Education

CERT 312	Educational Psychology.....	2
CERT 326	Exceptional Children.....	2
CERT 382	Reading and Language Arts.....	2
CERT 386	Mathematics Methods.....	2
CERT 413	Science Methods.....	2
CERT 424	Language Arts Essential Skills in the Elementary School.....	2
CERT 434	Classroom Assessment.....	2
CERT 436	Classroom Management.....	2
CERT 450	Teaching Methods.....	2
CERT 475	Directed Teaching.....	4
	<b>Total:</b>	<b>22</b>

### 2. Secondary Education

#### Option 1 English Language Art and Reading

CERT 312	Educational Psychology.....	3
CERT 326	Exceptional Children.....	3
CERT 382	Reading and Language Arts.....	3
CERT 434	Classroom Assessment.....	3
CERT 436	Classroom Management.....	3
CERT 450	Teaching Methods.....	3
CERT 485	Directed Teaching.....	4
	<b>Total:</b>	<b>22</b>

#### Option 2 Mathematics

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
	<b>Total:</b>	<b>22</b>

#### Option 3 Social Studies

CERT 312	Educational Psychology.....	3
CERT 326	Exceptional Children.....	3
CERT 419	Social Studies Methods.....	3
CERT 434	Classroom Assessment.....	3
CERT 436	Classroom Management.....	3
CERT 450	Teaching Methods.....	3
CERT 485	Directed Teaching.....	4
	<b>Total:</b>	<b>22</b>

#### Option 4 Life Science

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

## Education

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CERT 450	Teaching Methods.....	3
CERT 485	Directed Teaching.....	4
	<b>Total:</b>	<b>22</b>

### 3. All Level Education

#### Option 1 Music

CERT 253	Music in the School.....	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
	<b>Total:</b>	<b>22</b>

#### Option 2 Physical Education

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
	<b>Total:</b>	<b>22</b>

### Alternative Certification Courses

#### **CERT 243 - Physical Education/Health Methods (3 hours)**

The course provides the pre-service teacher with an extensive repertoire of teaching techniques in all level (EC – 12) physical education program. Emphasis is placed on health-related fitness, skill development, special events, and game development.

#### **CERT 253 - Music in the Schools (3 hours)**

A course designed to prepare pre-service teachers to direct the music activities of children in all levels (EC – 12). The contents include fundamentals, appreciation, singing and rhythm activities.

#### **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 pre-service teachers with skills to include children of all abilities through appropriate arrangement of the environment. Study will include the characteristics, assessment, admission, review and dismissal processes for special students requiring individualized or specialized programs.

**CERT 382 - Reading and Language Arts (2-3 hours)**

A course designed to acquaint the pre-service teacher 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 pre-service teacher with concepts, methods, and available materials for effective mathematics instruction in the schools. Creative development of materials and lesson plans are emphasized. (This course does not apply to mathematics requirements.) Includes field experience.

**CERT 413 - Science Methods (2-3 hours)**

A course designed to prepare pre-service teachers with practical classroom tested activities and ideas that are presented on planning, organizing, managing, and assessing an effective guided discovery science program. Students will have opportunities to develop teaching lessons. (This course does not apply to science requirements.)

**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 pre-service teacher 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 pre-service teachers develop systematic strategies and techniques for organizing and managing classroom activities and students. Research and practitioner-based models for classroom management will be reviewed and explored. Emphasis will be based upon real-world solutions that prepare pre-service teachers to be effective managers of their classrooms so that student learning is maximized.

**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. This course also addresses reading in the content area. Includes field experience.

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### **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 pre-service teachers seeking certification in Elementary Education. It requires full-day observations and student teaching in an approved elementary school for fourteen weeks under the direction of supervising teachers. Pass/no pass course.

### **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 pre-service teachers seeking certification in Secondary Education. It requires full-day observations and student teaching in an approved secondary school for fourteen weeks under the direction of supervising teachers. Pass/no pass course.

## Faculty/Staff

Susan Gardner, Chair; Jayne Doneskey, Renard Doneskey, 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 Writing all students at the university learn how to write coherent, well-organized essays. Students also take a literature class which requires writing on literary topics. The department helps English majors and minors understand and appreciate American, English, and world literature as well as linguistics and composition.

Students may elect courses which prepare them for careers as secondary English teachers, for graduate study in English, professional schools, or careers where ability to read closely, write effectively, and think critically is essential. A major in English is also an important asset to any student who wishes to specialize in several professional areas: law, medicine, business, public relations, publishing, library science, or government service.

## Programs

### 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.

- B.A. English
- B.A. English, emphasis in Writing
- Minor in English

### 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
ENGL	Electives.....	12

*Electives to be selected from the following courses:*

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 455	Studies in Romantic Literature <i>or</i>	
ENGL 456	Studies in Victorian Literature.....	3

## English

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ENGL 457	Studies in 20th Century Literature <i>or</i>	
ENGL 459	The American Classics.....	3
		<b>Total: 33</b>

### English, B.A., Writing Emphasis

ENGL 211	Approaches to Literary Research and Criticism.....	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
ENGL	Electives	15

*One course to be selected from the following:*

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

*One course to be selected from the following:*

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

*Three course to be selected from the following:*

ENGL 333	Narrative Writing.....	3
ENGL 335	Essay and Opinion Writing.....	3
ENGL 339	Poetry Writing.....	3
ENGL 340	Drama Writing.....	3
ENGL 440	Senior Project.....	3
		<b>Total: 33</b>

### Minor in English

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
ENGL	Electives.....	6

*Electives to be selected from the following courses:*

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 Certification

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 342	Composition Theory and Practice.....	3
ENGL 464	Advanced Grammar.....	3
ENGL	Electives.....	9

*Four courses selected from the following:*

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>

### Composition Courses

#### ENGL 021 - Composition Review (3 hours)

**Required of students whose SAT Critical Reading score is below 450 or whose ACT English score is below 17.**

This course prepares students to take Freshman Composition. It focuses on writing fundamentals, such as the thesis, paragraph development, topic sentences, and transitions. Students will improve their grammatical skills as well. Substantial reading plays an important part of the course. **Credit will not apply toward graduation.** (Fall, Spring)

### **ENGL 121 - Freshman Composition (3 hours)**

Prerequisite: Minimum SAT Critical Reading score of 450, 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

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 Writing (3 hours)**

Prerequisite: ENGL 121 and sophomore status

This course focuses on elements of research and information literacy skills and writing using sources. Structured for students from a variety of academic disciplines, the course emphasizes the rhetorical principles of audience, purpose, 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 333 - Narrative Writing (3 hours)**

Prerequisite: ENGL 220

The course focuses on the writing of narrative, examining traditional and non-traditional plots, character development, dialogue, setting, and other literary techniques.

### **ENGL 339 - Poetry Writing (3 hours)**

Prerequisite: ENGL 220

Students write poems and read the work of others, including fellow class members as well as established poets. The class works within a supportive workshop framework.

### **ENGL 340 - Drama Writing (3 hours)**

Prerequisite: ENGL 220

This course focuses on writing for performance, which may include the creation of stage plays as well as screenplays. General concepts are included to provoke thought about writing on a much broader basis. The course includes material on the genres of comedy and tragedy as well as dialogue, characterization, conflict, action, and setting.

### **ENGL 440 - Senior Project (3 hours)**

Prerequisite: ENGL 220

A student works closely with a professor to produce a major writing sample suitable for and prepared for publication.

**ENGL 342 - Composition Theory and Practice (3 hours)**

Prerequisite: ENGL 121, 220

This course, open to all majors, emphasizes both the theoretical and practical aspects fundamental to successful writing and the teaching of writing. Students examine major contemporary writing theorists and their research or contributions to the field of composition, analyze theory in relation to their own writing, define principles of effective writing and the teaching of writing, and apply these principles in a tutoring experience. Thirty hours of mentored tutoring in The Write Spot serves as a lab experience for the course. (Fall)

**Literature Courses****ENGL 221 - World Masterpieces: Ancient to Enlightenment (3 hours)**

Prerequisite: ENGL 121, 220

This basic literature course emphasizes 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

This course is 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

This literature course surveys 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, this course emphasizes 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, this course 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 literature requirement but not for the English major.

### **ENGL 335 - Essay and Opinion Writing (3 hours)**

Prerequisite: ENGL 220

The course focuses on non-narrative prose and students writing personal and persuasive essays, opinion pieces and editorials, autobiography and memory vignettes, and travel pieces.

### **ENGL 451 - Studies in Renaissance Literature (3 hours)**

Prerequisite: ENGL 121, 220

This course focuses on the historical and literary background of the English Renaissance from 1485-1616 with emphasis on the most significant writers of the period, including Shakespeare.

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

This course covers English prose and poetry from 1603-1660 with particular attention to the poetry of Jonson, Donne, and Herbert as well as a more detailed study of John Milton and his major poems. This course may be taken for general education credit with permission of the instructor only. (Fall, odd years)

### **ENGL 453 - Studies in 18th Century Literature (3 hours)**

Prerequisite: ENGL 121, 220

This course focuses on English poetry and prose from 1660-1800 with special attention to the major works of Dryden, Swift, and Pope. The course may be taken for general education credit with permission of the instructor only. (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 is the emphasis of this course. It 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

This covers representative English Romantic poetry and prose with special emphasis on Wordsworth, Coleridge, Shelley, Keats, and Byron. It may be taken for general education credit with permission of the instructor only. (Spring, odd years)

### **ENGL 456 - Studies in Victorian Literature (3 hours)**

Prerequisite: ENGL 121, 220

This course is a study of British poetry, novels, essays, and plays from 1830-1900 with emphasis on Dickens, R. Browning, Hardy, and E. Bronte. **This course fulfills the requirement for an upper-division course with components as specified in Southwestern's Quality Enhancement Plan.** The course 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

This course is 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.** It 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.

This course examines literary theories and genres and their application to selected works of literature. It is designed as a capstone to the English major, and taken during the student's senior year, it 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)**

This course is a study of major texts or authors in American literature in the nineteenth and twentieth centuries with an emphasis on distinctive elements in American subject matter and style. This course may be taken for general education credit with permission of instructor only. (Spring, odd years)

**Other Courses****ENGL 272 - Introduction to Drama (3 hours)**

Prerequisite: Permission of instructor

This course is 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. It may be repeated and is elective credit only. It does **not** apply toward the general education literature 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, and it may be repeated for a total of 3 credits.

**ENGL 414 - History of the English Language (3 hours)**

Prerequisite: ENGL 121, 220

This course is a linguistic study of the history of the English language through modern English. Study also will be given to American English and how it relates to our present culture. (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)

## English

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### **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, and it may be repeated for a total of 3 credits.

### **Reading Courses**

#### **RDNG 011 - Developmental Reading (3 hours)**

**Required of students with a Nelson Denny reading score of 10.9 and below.**

This course is designed to help the student increase comprehension, reading rate, vocabulary, study skills, and critical literacy. The course enables students to deal more effectively with the reading requirements in other college-level courses. **Credit will not apply toward graduation.**  
(Fall, Spring)

# English as a Second Language

## Faculty/Staff

Monica Kowarsch Gonzalez, Program Director

Adjunct: David Diaz, Jayne Doneskey, Melanie Padon

## Aims of the Program

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

Non-degree seeking ESL students may enter the ESL program without academic transcripts. (See Admissions p. 10). 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. In order to progress to another level, students must pass all of the ESL courses in their current level and obtain a score on the placement test between 48-74 points to enter level 2 or between 75-100 to enter level 3. 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, idioms, and fluent speech. (Fall, Spring)

### **ESOL 012 - Oral Composition II (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, and the use of idioms in everyday conversation. Fluency and accuracy are encouraged. (Fall, Spring)

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### **ESOL 015 - Experience America (1-2 hours)**

A short-term one-two month intensive language study for non-credit students. Classes and activities promote language learning and practical usage. Communication skills will be enhanced through in-class activities, interaction with American students, campus activities, and field trips. (Fall, Spring)

### **ESOL 020 - Grammar (3 hours)**

Introduction to the basics of English spelling, writing, parts of speech, punctuation, and sentence patterns. (Fall, Spring)

### **ESOL 025 - Intermediate Grammar (3 hours)**

Study of the structure of English sentence patterns, parts of speech, verb tenses and forms, 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)

### **ENAP 113 - Writing for Academic Purposes (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)

### **ENAP 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, idioms, 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)

### **ENAP 121 - Reading for Academic Purposes (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. To prepare students for college courses and examinations, emphasis is given to increasing reading speed of academic texts while maintaining comprehension. (Fall, Spring)



### **ENAP 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

Marsha Rasmussen, Advisor

Andrew Smith, Advisor

Cristina Thomsen, Advisor

Alfredo Vergel, Advisor

## Descriptions of the Programs

The General Studies program at Southwestern Adventist University is designed for two categories of students: 1) First-time students who are exploring major options and 2) Students whose main goal is to earn a college degree with an area of emphasis but without specializing in a major or minor field. Students will be able to choose from a wide selection of classes while meeting the requirements of the General Education Program.

The Interdisciplinary Studies program allows students, with planning, to enhance their education program by including an area of emphasis not offered on campus. Students wishing to pursue an Interdisciplinary Studies degree must complete the program application process prior to admission into the program.

Southwestern's Quality Enhancement Plan remains integral to the completion of a General Studies and Interdisciplinary Studies major. All requirements for the QEP as they pertain to the B.A. and B.S. degrees will be completed by General Studies students.

## Programs

- Associate of Science
- B.S. General Studies
- B.A./B.S. Interdisciplinary Studies

## Associate of Science

The Associate of Science degree consists of all general education courses required for the Bachelor of Science degree, with the following exception: 6 hours of religion instead of 12, and no upper division credits are required.. The Associate of Science degree is neither awarded en route to nor concurrently with a bachelor's degree at Southwestern. However, a student who has earned an Associate of Science degree at Southwestern may elect to complete the requirements for a bachelor's degree.

## B.S. in General Studies

The B.S. in General Studies requires the following:

1. Meet the University's general education and baccalaureate degree requirements.
2. Complete one area of emphasis of 42 hours (18 hours upper division) or two areas of emphasis of 24 hours each (9 hours upper division 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.

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3. 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 the second degree if there are 30 additional hours available in the major.

### **B.A./B.S. in Interdisciplinary Studies**

#### **B.A./B.S. in Interdisciplinary Studies**

A student who has a specific career goal not included in the list of majors and minors offered by Southwestern must initiate the request for a Bachelor of Science degree in Interdisciplinary Studies with the Vice President for Academic Administration. 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 60 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 (3-5 pages) which explains the proposed course of study.
2. Identification of 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.
3. Courses must be grouped by general education, areas of emphasis, and electives under the headings of Courses Completed, Courses In-progress and Proposed Courses. Courses must also be identified which meet the QEP requirements. Upper division courses should be identified with an asterisk (\*) and must total a minimum of 40 hours.
4. All courses taken or planned to be taken off-campus must be identified as such.
5. Signatures by each faculty member of the committee, the Registrar, and the Vice President for Academic Administration.

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. An abstract (120 words) of the program which can be included with the student's transcript must be submitted prior to graduation.

# Geology

## Faculty/Staff

Art Chadwick, Chair.

## Program

Southwestern Adventist University, in conjunction with Loma Linda University, offers a geology program with major emphasis in sedimentology, stratigraphy and paleontology. The freshman and sophomore years are taken on the campus of Southwestern Adventist University, while the junior and senior years are taken on the campus of Loma Linda University.

### Freshman Year

BIOL 111, 112	General Biology.....	8
CHEM 111, 112	General Chemistry.....	8
ENGL 121	Freshman Composition.....	3
GEOL 111, 112	Physical Geology & Historical Geology.....	8
MATH 121	Precalculus.....	3
	Elective.....	3
	<b>Total:</b>	<b>33</b>

### Summer

GEOL 240	The Dinosaurs.....	4
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### Sophomore Year

CHEM 310	Environmental & Geological Chemistry.....	4
ENGL 220	Research Writing.....	3
GEOL 220	Mineralogy.....	4
GEOL 320	Stratigraphy and Sedimentary Petrology and Petrography.....	4
PHYS 111, 112	General Physics.....	8
KINA	Elective.....	1
RLGN	Elective.....	3
HIST	Elective.....	3
	Elective.....	2
	<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)**

Prerequisites: 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)**

Prerequisites: 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 Southwestern'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)**

Prerequisites: 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; Elizabeth Bowser, Robert Gardner, Amy Rosenthal

Adjunct: Chloe Northrop, Monroe Solomon III

Senior Lecturer: Erwin Sicher

## Mission

The mission of the History/Social Science Department is to help students acquire critical, analytical, and communicative skills through a mastery of Social Science courses, taught in a Christian context.

## Aims of the Department

The department's offerings in history are designed to help the student to understand the present more fully by guiding him in a study of the past and by helping him to reason from cause to effect. The study of history is approached from the biblical viewpoint. "In the annals of human history the growth of nations, the rise and fall of empires, appear as dependent on the will and prowess of man. The shaping of events seems, to a large degree, to be determined by his power, ambition, or caprice. But in the Word of God the curtain is drawn aside, and we behold, behind, above, and through all the play and counter-play of human interests and power and passions, the agencies of the all-merciful One, silently, patiently working out the counsel of His own will." E. G. White, EDUCATION, p. 173.

In political science the student traces the development, functions, and operation of national, local, and foreign governments.

## Programs

- B.A. History
- B.A. History, International Relations, and Public Policy
- B.A. History - Secondary Certification
- B.S. Social Science
- B.S. Social Studies - Secondary Certification
- Minors in History, History - Secondary Certification, Political Science and Social Science

## History, B.A.

HIST 111	American History 1492-1865.....	3
HIST 112	American History 1866-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
HIST	Electives 9 hours must be non-U.S. History.....	21

*Electives to be selected from the following courses*

HIST 320	American International Relations.....	3
HIST 326	From Colony to Nation, 1607-1783.....	3
HIST 331	History of Christianity I.....	3

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HIST 332	History of Christianity II.....	3
HIST 335	Establishing a Nation, 1783-1836.....	3
HIST 345	Sectionalism and Civil War, 1836-1865.....	3
HIST 355	Reconstruction and Reunion, 1865-1917.....	3
HIST 360	History of the British Isles.....	3
HIST 370	East Asian History.....	3
HIST 364	Ancient Cultures.....	3
HIST 365	Global Power: America 1917-Present.....	3
HIST 414	Early Modern Europe.....	3
HIST 415	Texas and the West.....	3
HIST 424	Modern Europe.....	3
HIST 430	Medieval Europe.....	3
	<b>Total:</b>	<b>36</b>

Students will also complete and present a Senior Thesis.

### Required cognates:

POLS elective.....	3
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### History, International Relations, and Public Policy, B.A.

HIST 112	American History 1866-Present.....	3
HIST 201	Historical Methods: Research & Historiography.....	3
HIST 212	History of Western Civilization II.....	3
HIST 312	Historical and Political Geography.....	3
HIST 320	American International Relations.....	3
HIST 425	Executive Leadership.....	3

*Regional/Topical Histories choose two from:*

HIST 360	History of the British Isles.....	3
HIST 365	Global Power: America 1917-Present.....	3
HIST 370	East Asia.....	3
	<b>Subtotal:</b>	<b>6</b>

*Political Science*

POLS 211	National and Texas Constitutions.....	3
	<i>Choose from:</i>	
POLS 360	American National Government <i>or</i>	
POLS 364	American Constitutional Development.....	3
	<b>Subtotal:</b>	<b>6</b>

*Internship*

HIST 492	History/Social Science Internship <i>or</i>	
POLS 492	Political Science Internship.....	3
	<b>Subtotal:</b>	<b>3</b>

*Portfolio*

HIST 475	Portfolio Development.....	1
	<b>Total:</b>	<b>34</b>

**Required cognates:**

ECON 211	Macroeconomics.....	3
BUAD 211	Profiles in Entrepreneurship <i>or</i>	
BUAD 453	Cross-Cultural Studies.....	3
BUAD 460	Ethics and Business Social Responsibility <i>or</i>	
COMM 431	Media Law and Ethics.....	3
SOCI 111	Intro to Sociology.....	3

Students will also complete and present a senior thesis or project.

**Social Science, B.S.**

ECON 211	Macroeconomics.....	3
HIST 111	American History 1492-1865.....	3
HIST 112	American History 1866-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
HIST 312	Historical and Political Geography.....	3
HIST	History electives (9 hours must be non U.S. History).....	18
POLS	Political Science electives.....	6
	Social Science elective.....	3
	<b>Total:</b>	<b>48</b>

*History electives to be selected from the following courses:*

HIST 320	American International Relations.....	3
HIST 326	From Colony to Nation, 1607-1783.....	3
HIST 331	History of Christianity I.....	3
HIST 332	History of Christianity II.....	3
HIST 335	Establishing a Nation, 1783-1836.....	3
HIST 345	Sectionalism and Civil War, 1836-1865.....	3
HIST 355	Reconstruction and Reunion, 1865-1917.....	3
HIST 360	History of the British Isles.....	3
HIST 364	Ancient Cultures.....	3
HIST 365	Global Power: America 1917-Present.....	3
HIST 370	East Asian History.....	3
HIST 414	Early Modern Europe.....	3
HIST 415	Texas and the West.....	3
HIST 424	Modern Europe.....	3
HIST 430	Medieval Europe.....	3

*Political Science electives to be selected from the following courses:*

POLS 211	National and Texas Constitutions.....	3
POLS 320	American International Relations.....	3
POLS 360	American National Government.....	3
POLS 364	American Constitutional Development.....	3
POLS 425	Executive Leadership.....	3

*Social Science elective to be selected from the following courses:*

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ECON 212	Microeconomics <i>or</i>	
COMM 110	Communication Media <i>or</i>	
SOCI 111	Intro to Sociology.....	3

Students will also complete and present a Senior Thesis.

### Minor in History

HIST 111	American History, 1492-1865.....	3
HIST 112	American History, 1866-Present.....	3
HIST 211	History of Western Civilization I <i>or</i>	
HIST 212	History of Western Civilization II.....	3
HIST	Electives upper division.....	9
	<b>Total:</b>	<b>18</b>

### Minor in Political Science

POLS 211	National and Texas Constitutions.....	3
POLS	Electives 9 hours upper division.....	15
	<b>Total:</b>	<b>18</b>

### Minor in Social Science

HIST 112	American History, 1866-Present.....	3
HIST 212	History of Western Civilization II.....	3
HIST 312	Historical and Political Geography.....	3
POLS	Electives.....	6
ECON	Electives.....	6
HIST	Electives.....	3
	6 upper division.....	
	<b>Total:</b>	<b>24</b>

## 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	American History 1492-1865.....	3
HIST 112	American History 1866-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
HIST	Electives upper division (9 hours, non-U.S. History).....	21
	<b>Total:</b>	<b>36</b>

Students will also complete and present a Senior Thesis.

### History Minor - Secondary Teaching Area

HIST 111	American History 1492-1865.....	3
HIST 112	American History 1866-Present.....	3

HIST 211	History of Western Civilization I.....	3
HIST 212	History of Western Civilization II.....	3
HIST	Electives upper division (9 hours, non-U.S. History).....	12
<b>Total:</b>		<b>24</b>

**Social Studies, B.S. - Secondary Teaching Area**

HIST 111	American History 1492-1865.....	3
HIST 112	American History 1866-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
HIST 312	Historical and Political Geography.....	3
HIST	Non-U.S. History.....	9
HIST	Electives.....	9
POLS	Electives.....	6
ECON	Electives.....	6
<b>Total:</b>		<b>48</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

Students will also complete and present a senior thesis.

**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)

## History & Social Science

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### **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)

### **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.** (Fall, even 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. (Offered periodically.)

### **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.** (Offered periodically)

### **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 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.** (Also taught as POLS 425.) (Offered periodically)

### **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)

### **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 should take the class in their last semester before graduation; however, they may take it both semesters of their senior year upon advisor recommendation. **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.

### **HIST 492 - History/Social Science Internship (1-3 hours)**

Students in the History, International Relations, and Public Policy major will take three hours of internship work. This may be three hours at one internship agency, or divided among different agencies in one-hour increments. Students will meet with departmental faculty and agency representatives to agree on an internship contract before beginning the course. The internship(s) will enable students to work directly in an area of their interest, give them experience vital in job searches, and give them an advantage when seeking graduate education.

## **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)

## History & Social Science

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### **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.** (Also taught as HIST 425.) (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.

### **POLS 492 - Political Science Internship (1-3 hours)**

Students in the History, International Relations, and Public Policy major will take three hours of internship work. This may be three hours at one internship agency, or divided among different agencies in one-hour increments. Students will meet with departmental faculty and agency representatives to agree on an internship contract before beginning the course. The internship(s) will enable students to work directly in an area of their interest, give them experience vital in job searches, and give them an advantage when seeking graduate education.

## 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)

## 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

### 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 404.
3. Complete 6 hours of HNRS 200 and HNRS 300.
4. Complete 4 hours of HNRS 400 and HNRS 401.
5. 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)

### **HNRS 200 - The Honors Perspective (3 hours)**

An introduction to the Southwestern Honors Program. The course will use a "great books" approach and a discussion format to engage perennial issues in the life of the educated person. Required in the freshman or sophomore year of all Southwestern honors students. This course fulfills the requirement for UNIV 110: Principles of Active Learning.

### **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 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 300 - Junior Seminar (3 hours)**

A seminar examining major and influential works and ideas through reading and seminar discussion. The approach to the works and ideas may be chronological or thematic.

### **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 400 - Senior Seminar (2 hours)**

Through directed readings and scholarship, the honors student begins the honors thesis. The honors student will complete the honors thesis proposal and an annotated bibliography.

**HNRS 401 - Senior Seminar (2 hours)**

The honors student completes the research and writing of the honors thesis under the direction of the honors director and an academic department faculty mentor. Coursework includes a major seminar presentation.

**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 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.



# Kinesiology

## Faculty/Staff

Vesa Naukkarinen, Chair; Chad Hutchinson

Adjunct: Wayne Baker, Brent Batla, Tyler Bray, Emerson DePaiva, Michael England, Mick Moffitt, Francis Nicholas, Embedzayi Tzanzi, Kim Vanhoose

## Aims of the Department

The Department of Kinesiology provides classes and support for Exercise Science, Health and Fitness, Sports and Fitness Management, Physical Education and Fire Science majors as well as minors in Physical Education, Health and Fitness, and Coaching. Classes to support the general studies students in fitness, wellness and physical education are also provided. In the basic fitness and wellness classes, students are guided through a personal fitness program and encouraged to adopt a proactive wellness lifestyle, consistent with SDA teachings. Infrastructure to the University is provided by the operation of a fitness/recreation center that is available to all students and faculty.

Students may elect courses that prepare them for careers as elementary or secondary physical education teachers. A major in Physical Education will also prepare the student for a career in the public or private sector of recreation. Exercise Science is an excellent pre-professional course of study for exercise physiology, physical therapy or other areas of medicine. A major in Health and Fitness prepares the student to become a certified personal trainer and find a career in the hospital, corporate or private fitness industry. Sports and Fitness Management major is for students interested in running a health club or managing a sports team. All of the majors prepare students to enter graduate school. A major in Fire Science will prepare the student to become a professional firefighter.

## Programs

- B.S. Exercise Science
- B.S. Health and Fitness
- B.S. Sports and Fitness Management
- B.S. Physical Education
- A.A.S. in Fire Science
- A.S. Health and Fitness
- Minors in Coaching, Physical Education, and Health and Fitness

## Kinesiology Core Curriculum

Required of all B.S. students

KINT 110	Fundamentals of Kinesiology.....	3
KINT 111	Health & Wellness.....	3
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 490	Senior Seminar.....	1

## Requirements by Concentration

### Exercise Science, B.S.

KINA 115	Resistance Training.....	1
KINA 215	Advanced Resistance Training.....	1
KINT 216	Nutrition.....	3
KINT 252	ACSM Certified Personal Trainer.....	3
KINT 260	First Aid, CPR, and First Responder Training.....	2
KINT 354	NSCA Certified Strength & Conditioning Specialist.....	3
KINT 452	ACSM Certified Health Fitness Specialist.....	3
KINT 460	Applied Social Research Methods.....	3
KINT 480	Internship.....	6
	<b>Total:</b>	<b>25</b>

### Required Cognates:

BIOL 101, 102	Anatomy & Physiology.....	8
CHEM 111, 112	General Chemistry.....	8
MATH 121	Precalculus.....	3
MATH 241	Intro to Probability and Statistics.....	3
PHYS 121	General Physics.....	4
PSYC 212	General Psychology.....	3
PSYC 220	Human Growth & Development.....	3

### Health and Fitness, B.S.

Minor required

KINA 111	Physical Fitness.....	1
KINA 112	Aerobics <i>or</i>	
KINA 212	Advanced Aerobics.....	1
KINA 115	Resistance Training.....	1
KINA 116	Fitness Walking.....	1
KINA 233	Water Aerobics <i>or</i>	
KINA 234	Lifeguard Training.....	1
KINA 215	Advanced Resistance Training.....	1
KINT 216	Nutrition.....	3
KINT 252	ACSM Certified Personal Trainer.....	3
KINT 260	First Aid, CPR & First Responder Training.....	2
KINT 354	NSCA Certified Strength & Conditioning Specialist.....	3
KINT 450	Administration of Kinesiology.....	3
KINT 452	ACSM Certified Health Fitness Specialist.....	3
KINT 480	Internship.....	6
	<b>Total:</b>	<b>29</b>

### Required Cognates:

ACCT 211	Accounting Principles I.....	3
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BIOL 101, 102	Anatomy and Physiology.....	8
COMM 227	Convergent Journalism <i>or</i>	
CSIS 303	E-Commerce and Website Design.....	3
PSYC 220	Human Growth and Development.....	3

**Sports and Fitness Management, B.S.**

**Kinesiology Courses:**

KINA 115	Resistance Training.....	1
KINT 252	ACSM Certified Personal Trainer.....	3
KINT 354	NSCA Certified Strength & Conditioning Specialist.....	3
KINT 450	Administration of Kinesiology.....	3
KINT 452	ACSM Certified Health Fitness Specialist.....	3
KINT 485	Internship.....	6
<b>Total:</b>		<b>19</b>

**Required Cognates:**

ACCT 211	Accounting Principles.....	3
BIOL 101, 102	Anatomy & Physiology.....	8
BUAD 301	Principles of Management.....	3
BUAD 321	Business Finance.....	3
BUAD 372	Human Resource Management.....	3
BUAD 472	Business Policies and Strategies.....	3
ECON 211	Macroeconomics <i>or</i>	
ECON 212	Microeconomics.....	3
MATH 241	Intro to Probability and Statistics.....	3
MKTG 343	Principles of Marketing.....	3

**Physical Education, B.S.**

KINA 115	Resistance Training <i>or</i>	
KINA 215	Advanced Resistance Training.....	1
KINT 131	Officiating I.....	2
KINT 132	Officiating II.....	2
KINT 231	Professional Activities I.....	3
KINT 232	Professional Activities II.....	3
KINT 233	Professional Activities III.....	3
KINT 351	Coaching.....	3
KINT 420	Adapted Physical Education.....	3
KINT 431	Physical Education Methods (K-12).....	3
KINT 450	Administration of Kinesiology.....	3
<b>Total:</b>		<b>26</b>

**Required Cognates:**

BIOL 101, 102	Anatomy and Physiology.....	8
RLGN 212	Christian Ethics.....	3

**Teaching Certification Program**

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

## Kinesiology

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**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.

### Health and Fitness, A.S.

KINA 112	Aerobics <i>or</i>	
KINA 212	Advanced Aerobics.....	1
KINA 115	Resistance Training <i>or</i>	
KINA 215	Advanced Resistance Training.....	1
KINA 116	Fitness Walking.....	1
KINA 233	Water Aerobics <i>or</i>	
KINA 234	Lifeguard Training.....	1
KINT 110	Fundamentals of Kinesiology.....	3
KINT 111	Health & Wellness.....	3
KINT 216	Nutrition.....	3
KINT 241	Care and Prevention of Athletic Injuries.....	3
KINT 252	ACSM Certified Personal Trainer.....	3
KINT 260	First Aid, CPR, and First Responder Training.....	2
KINT 280	Internship.....	3
	<b>Total:</b>	<b>24</b>

### Required Cognate:

BIOL 101	Anatomy & Physiology.....	4
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### Fire Science, A.A.S.

BIOL 101	Anatomy & Physiology.....	4
ENGL 121	Freshman Composition.....	3
HIST	Elective.....	
KINT 111	Health and Wellness.....	3
RLGN 212	Christian Ethics.....	3
RLGN	Elective.....	3
	Elective.....	2
FIRS 101	Firefighter Certification I.....	3
FIRS 102	Firefighter Certification II.....	3
FIRS 103	Firefighter Certification III.....	3
FIRS 104	Firefighter Certification IV.....	3
FIRS 201	Firefighter Certification V.....	3
FIRS 202	Firefighter Certification VI.....	3
FIRS 203	Firefighter Certification VII.....	3
FIRS 204	Firefighter Practicum (Boot Camp)*.....	1
FIRT 211	Internship.....	3
FIRT 212	Firefighter Health & Safety.....	3
FIRT 213	Fire Prevention, Codes, and Inspection.....	3
FIRT 214	Fire Investigator <i>or</i>	
FIRS 215	Fire Apparatus Pumper – Driver/Operator.....	3
EMSP 201	EMT Basic.....	4
EMSP 202	EMT Clinical.....	1
	<b>Total:</b>	<b>60</b>

\*Includes all laboratory elements for: FIRS 101, 102, 103, 104, 201, 202 and 203

**Minor in Coaching**

KINA 115	Resistance Training <i>or</i>	
KINA 215	Advanced Resistance Training.....	1
KINT 110	Fundamentals of Kinesiology.....	3
KINT 131	Officiating I <i>or</i>	
KINT 132	Officiating II.....	2
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	NSCA Certified Strength & Conditioning Specialist.....	3
	<b>Total:</b>	<b>18</b>

**Required Cognate:**

BIOL 101	Anatomy & Physiology.....	4
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**Minor in Physical Education**

KINA 115	Resistance Training <i>or</i>	
KINA 215	Advanced Resistance Training.....	1
KINT 110	Fundamentals of Kinesiology.....	3
KINT 131	Officiating I <i>or</i>	
KINT 132	Officiating II.....	2
<i>choose two</i>	<i>of the three Professional Activities</i>	
KINT 231	Professional Activities I <i>or</i>	
KINT 232	Professional Activities II <i>or</i>	
KINT 233	Professional Activities III.....	6
KINT 241	Care and Prevention of Athletic Injuries.....	3
KINT 431	Physical Education Methods (K-12).....	3
	<b>Total:</b>	<b>18</b>

**Required Cognate:**

BIOL 101	Anatomy & Physiology.....	4
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**Minor in Health and Fitness**

KINA 112	Aerobics <i>or</i>	
KINA 212	Advanced Aerobics.....	1
KINA 115	Resistance Training.....	1
KINA 215	Advanced Resistance Training.....	1
KINT 110	Fundamentals of Kinesiology.....	3
KINT 111	Health and Wellness.....	3
KINT 216	Nutrition.....	3
KINT 241	Care and Prevention of Athletic Injuries.....	3
KINT 252	ACSM Certified Personal Trainer.....	3
	<b>Total:</b>	<b>18</b>

**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 health-related fitness. Lecture and lab. Cannot be taken with KINA 111 Physical Fitness. (Fall, Spring, Summer)

### **KINT 131 - Officiating I (2 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 is to officiate college intramurals and to assist in the administration of the recreational sports program. (Spring, even years)

### **KINT 132 - Officiating II (2 hours)**

Theory and practice of officiating flag football, volleyball, and softball including rules, interpretation of rules, officiating techniques and examinations. Part of the class requirements is to officiate college intramurals and to assist in the administration of the recreational sports program. (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 (3 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 flag football, 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 gymnastics. (Fall, odd years)

### **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. Course fee. (Fall, even years)

### **KINT 243 - Health and Physical Education in the Elementary School (3 hours)**

The course provides the pre-service teacher 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 252 - ACSM Certified Personal Trainer (3 hours)**

Prerequisite: BIOL 101

This course will cover health appraisal, risk assessment and safety of exercise, fitness testing, and an overview of exercise prescription. The course will prepare students to take the ACSM's Certified Personal Trainer certification exam. Course fee. (Fall, odd years)

### **KINT 260 - First Aid, CPR, and First Responder 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. (Spring, even years)

### **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 321 - Exercise Physiology (3 hours)**

Prerequisites: BIOL 101, 102

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, 102

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 will also prepare students to take the American Sport Education Program coaching certification exam. **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 354 - NSCA Certified Strength & Conditioning Specialist (3 hours)**

Prerequisite: KINT 321, 331

This course is designed to apply scientific knowledge to train athletes for the primary goal of improving athletic performance. The topics covered include conducting sport-specific testing sessions, designing, and implementing safe and effective resistance training and conditioning programs and providing guidance regarding nutrition and injury prevention. Certification requires additional fee. (Spring, even 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 - Physical Education Methods (K-12) (3 hours)**

Prerequisite: KINT 231, 232

The study of methods and techniques of teaching physical education in the elementary and secondary school, including individual as well as group activities; students are required to observe and demonstrate in class. (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 - ACSM Certified Health & Fitness Specialist (3 hours)**

Prerequisite: KINT 252

This course will prepare students to take the ACSM Health Fitness Specialist Exam. The course will cover basic anatomy and physiology, nutrition, fitness assessment, program design, injury prevention and first aid, behavioral change and legal guidelines. Certification requires additional fee. (Spring, odd 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 280/480 - 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 and Fitness Management Internship (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 high school or college athletic programs, professional sports teams, or fitness centers. (Fall, Spring, Summer)

### **KINT 490 - Senior Seminar (Capstone/Portfolio) (1 hour)**

This is a capstone course where students will study and discuss current issues and concepts within the Physical Education, Exercise Science and Health Fitness professions. In addition, the students will prepare for employment in the profession. The class also prepares students for the major exit exam. **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 Kinesiology majors 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, muscular fitness, body composition, and cardiovascular pre- and post-semester assessment. This course also incorporates SDA heritage on healthful living. Cannot be taken with KINT 111 Health & Wellness. (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 - Resistance Training (1 hour)**

An introduction to the development of muscular fitness through the use of weighted resistance. Safety procedures are stressed. (Fall)

### **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 shooting, passing, and goal keeping. Offensive and defensive strategies are introduced. Includes topics such as rules and terminology. (Offered periodically)

**KINA 124 - Basketball (1 hour)**

Development of skills in shooting, passing, executing plays and understanding offensive and defensive strategies. (Offered periodically)

**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 - Swimming (1 hour)**

Students are introduced to basic aquatic safety, floating, freestyle, and elementary backstroke. (Fall)

**KINA 141 - Badminton (1 hour)**

Students will develop skills in the basic badminton strokes, including the long and short serve, overhead clear, drop shot, smash, round-the-head shot and net shots. They will also learn doubles and singles strategy. (Spring)

**KINA 142 - Tennis (1 hour)**

Students develop skills in the basic strokes (forehand, backhand, serve, volley, and lob). They are also introduced to strategy of play. (Fall)

**KINA 145 - Racquetball (1 hour)**

An introduction to five basic serves, forehand and backhand, strokes, rules, sportsmanship and strategy of the game. (Fall, Spring)

**KINA 212 - Advanced Aerobics (1 hour)**

Prerequisite: KINA 112

High intensity aerobic class. May include step aerobics, kick boxing, or other popular routines. (Spring)

**KINA 215 - Advanced Resistance 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 222 - Soccer Team (1 hour)**

This course is designed for the advanced soccer player to participate in higher-level athletic competition as a member of a sports team. Advanced fundamentals and skills through practice, participation in intercollegiate contests and peripheral activities that include community awareness and involvement make up the components of this course. Must obtain permission from instructor to participate. May be repeated for credit for a total of 4 credits. May be applied toward general education KINA requirement. Course fee applies. (Fall)



### **KINA 224 - Basketball Team (1 hour)**

This course is designed for the advanced basketball player to participate in higher-level athletic competition as a member of a sports team. Advanced fundamentals and skills through practice, participation in intercollegiate contests and peripheral activities that include community awareness and involvement make up the components of this course. Must obtain permission from instructor to participate. May be repeated for credit for a total of 4 credits. May be applied toward general education KINA requirement. Course fee applies. (Fall, Spring)

### **KINA 225 - Volleyball Team (1 hour)**

This course is designed for the advanced volleyball player to participate in higher-level athletic competition as a member of a sports team. Advanced fundamentals and skills through practice, participation in intercollegiate contests and peripheral activities that include community awareness and involvement make up the components of this course. Must obtain permission from instructor to participate. May be repeated for credit for a total of 4 credits. May be applied toward general education KINA requirement. Course fee applies. (Fall)

### **KINA 229 - Gymnastics Team (1 hour)**

This class is a touring, witnessing acrosport team. The skills required are basic and power tumbling, pyramid building and basket tossing. Team members are required to tour and attend clinics. May be repeated for credit. (Fall, Spring)

### **KINA 231 - Advanced Swimming (1 hour)**

Prerequisite: KINA 131 or approval by instructor

Opportunity is given for students to progress to advanced levels of swimming in backstroke, freestyle, breaststroke, and butterfly stroke. (Offered periodically)

### **KINA 233 - Water Aerobics (1 hour)**

An introduction to basic water movements for strength and flexibility. (Fall)

### **KINA 234 - Lifeguard Training (1 hour)**

Certified training in lifeguard techniques. Requires a recording fee. (Offered periodically)

### **KINA 242 - Advanced Tennis (1 hour)**

Prerequisite: KINA 142 or approval by 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 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 248 - Advanced Racquetball (1 hour)**

Prerequisite: KINA 145 or approval by 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)

## Kinesiology

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### **KINA 246 - 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 247 - 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. (Offered periodically)

### **KINA 255 - Floorball (1 hour)**

Students will develop skills in stick handling, passing and shooting. They will also be introduced to offensive and defensive strategies. (Fall)

### **KINA 291 - Selected Topics (1 hour)**

Prerequisite: Approval by department chair

A course designed for students who must complete a physical activity class independently.

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

Prerequisite: Approval by department chair. A course designed for students with intermediate skill level.

## Fire Science

Fire Science encompasses leadership and service to assist in the growing fire science segment of the economy. In the world of fire and emergency operations, knowledge of how to best respond quickly requires training that incorporates the changing conditions. The Fire Science program prepares students by teaching them the latest industry principles, theories, and best practices. Students learn fire safety, tactical operations, leadership and community fire outreach and response skills.

Southwestern offers the Associate of Applied Science (A.A.S.) degree in Fire Science in cooperation with the Training Division in Crowley, Texas. It prepares students for Fire Science careers.

### **Student Learning Outcomes**

The goals of the Fire Science program are to provide each student with the necessary knowledge, skills, and abilities to function as a Firefighter/EMT. Upon completion of this program, the student will be able to demonstrate:

1. Subject matter proficiency
2. A variety of Firefighter skills to meet State certification requirements
3. A variety of EMT skills to meet State certification requirements
4. Fire Inspector competencies needed for State certification
5. Critical thinking in addressing discipline-based questions
6. Familiarity with standards, expectations and ethics in the discipline

### **Admission Criteria**

1. Meet all admission requirements for enrollment at Southwestern Adventist University.

2. Complete all steps in the Fire Science Application Process.
3. Complete all Fire Science pre-requisites:
  - a. Minimum score of 11 on the Nelson Denny  

Students scoring minimums may enter the program on a probationary basis and must take RDNG 021.
  - b. Minimum SAT score of 450 in Critical Reading or ACT score of 17 in English  

Students scoring minimums may enter the program on a probationary basis and must take ENGL 021.
  - c. Minimum of 500 SAT Math or 21 ACT Math  

Students scoring below minimums may enter the program on a probationary basis and must take MATH 013.
  - d. Minimum score of 70 on the Computer Proficiency Test  

Students scoring below 70 may enter the program on a probationary basis and must take CSIS 102.
  - e. Minimum high school GPA of 2.75  

Transfer students must have a minimum cumulative GPA of 2.5.

### Fire Science Application Process

1. Obtain two letters of recommendation from individuals other than relatives.
2. Submit a statement of purpose—a one page, typed essay describing reasons why you would like to become a firefighter.
3. Complete and submit all health records.
  - a. Physicians release for strenuous physical activity
  - b. Provide documented proof of vaccinations: MMR, TB, Hepatitis B, Influenza, Meningitis and Tetanus
4. Submit to, pay for, and pass a criminal background check.

### Continuation and Progression Policies

1. The Department of Kinesiology reserves the right to require withdrawal of a Fire Science student from the program or a Fire Science course who fails to demonstrate competency and/or displays inappropriate/unprofessional or unsafe behavior.
2. Students must maintain a cumulative GPA of 2.5 to progress in Fire Science and to graduate. No grade lower than C will be accepted in Fire Science courses. Students whose GPA falls below 2.5 at any time during the program must raise their GPA to 2.5 or better within the next semester to continue in the program. If the GPA remains below 2.5, the student will be permanently dropped from the program.
3. Students are allowed only one repeat of one Fire Science course.
4. Fire Science courses dropped within one (1) week after the midterm date on the academic calendar will not count as a completed course. A Fire Science course that is dropped after that time will be treated as a completed Fire Science course.
5. Students who fail a course may progress only with permission of the Kinesiology Department.
6. All Fire Science courses are to be completed within a three-year time frame.
7. Students cannot take the Texas Fire Certification exam until all degree requirements have been met.

# Kinesiology

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## Termination Policy

The following situations or conditions will result in termination from the fire science program:

1. Unsafe, unethical, or unprofessional fire science practice
2. GPA less than 2.5 for two consecutive semesters
3. Unresolved issues with the drug screen and background checks

## Readmission Policy

Readmission is possible for Fire Science students who left the program in good standing, and according to the Fire Science progression criteria. Students who have been out of the program will return under the most current bulletin. A new background check and drug screen must be completed and approved before being readmitted.

## Transportation Policies

Students are expected to provide their own transportation to and from off-campus. Faculty will not provide transportation.

## On-campus Residency and Transfer Requirements

Complete a minimum of 15 semester credit hours in residence. The last 12 hours before graduation must be taken in residence at SWAU. Transfer credits will be awarded according to University policy.

## Boot Camp

Boot camp is an intensive hands-on lab/skills session that is completed in a special summer term after successful completion of the freshman year. The candidate will sign up for a May, June, July, or August Boot Camp offering before the end of their first semester. Boot Camp is completed Training Division in Crowley, TX. Students will be participating in an intensive 2-week program designed to complete the practical (skills) portion of the Fire Academy. Every effort has been made to replicate a real working fire station to make the Boot Camp experience in every way a slice of the professional firefighter's life. The entire academy class will be housed in a new, state of the art training facility. Students will be responsible for cleaning and basic housekeeping for the facility. Most hands-on training will take place in the fire yard, on the apparatus, fire tower, in a burning building, or at other appropriate facilities. Students will be required to pass the final evaluation with at least an 80% in order to be permitted to test for their certificate with the Texas Commission on Fire Protection. The final evaluation is a 200 question, multiple-choice exam that will be given at the boot camp. Failure in any of these components will require remedial training and a re-test.

## Courses

### **FIRS 101 - Firefighter Certification I (3 hours)**

One in a series of courses in basic preparation for a new firefighter. Covers the following subjects: History of the fire service, orientation to the fire service, firefighter qualifications and safety, fire service communications, incident command system, and fire behavior. Course should be taken in conjunction with Firefighter Certification II, III, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression.

**FIRS 102 - Firefighter Certification II (3 hours)**

Prerequisite: FIRS 101

One in a series of courses in basic preparation for a new firefighter. Covers the following subjects: Building construction, portable fire extinguishers, firefighter tools and equipment, ropes and knots, response and size-up. Course should be taken in conjunction with Firefighter Certification II, III, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression.

**FIRS 103 - Firefighter Certification III (3 hours)**

Prerequisite: FIRS 102

One in a series of courses in basic preparation for a new firefighter. Covers the following subjects: Forcible entry, ladders, search & rescue, ventilation, and water supply. Course should be taken in conjunction with Firefighter Certification II, III, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression.

**FIRS 104 - Firefighter Certification IV (3 hours)**

Prerequisite: FIRS 103

One in a series of courses in basic preparation for a new firefighter. Covers the following subjects: Fire hose, nozzles, streams and foam, firefighter survival, salvage and overhaul, firefighter rehabilitation, and wild land and ground fires. Course should be taken in conjunction with Firefighter Certification II, III, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression.

**FIRS 201 - Firefighter Certification V (3 hours)**

Prerequisite: FIRS 104

One in a series of courses in basic preparation for a new firefighter. Covers the following subjects: Fire suppression, pre-incident planning, fire and emergency medical care, emergency medical care, vehicle rescue and extrication, and assisting special rescue teams. Course should be taken in conjunction with Firefighter Certification II, III, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression.

**FIRS 202 - Firefighter Certification VI (3 hours)**

Prerequisite: FIRS 201

One in a series of courses in basic preparation for a new firefighter. Covers the following subjects: Hazardous Materials Awareness, Hazardous Materials Operations, Fire Prevention and Public Education, Fire Detection, Protection, and suppression systems, and fire cause determination. Course should be taken in conjunction with Firefighter Certification II, III, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression.

**FIRS 203 - Firefighter Certification VII (3 hours)**

Prerequisite: FIRS 202

One in a series of courses in basic preparation for a new firefighter. Covers the following subjects: Firefighter 1 and 2 skills, and Hazardous Materials awareness and operations skills. The course also includes all laboratory elements for FIRS 101, 102, 103, 201, 202, and 203. Course must be taken in conjunction with Firefighter Certification II, III, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression.

### **FIRS 204 - Fire Fighting Practicum - "Boot Camp" (1 hour)**

Prerequisite: FIRS 203

One in a series of courses in basic preparation for a new firefighter. Covers the following subjects: live fire operations, hands on skills completion, skills testing and evaluation. Course must be taken in conjunction with Firefighter Certification II, III, IV, V, VI, VII, and VIII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression.

### **EMSP 201 - EMT Basic (4 hours)**

This course is designed to teach the student how to apply operational principles in out-of-hospital environments and demonstrate lifesaving care to patients at the Emergency Medical Technician (EMT) level and display professional and ethical behaviors expected of emergency personnel.

### **EMSP 202 - EMT Clinical (1 hour)**

Prerequisite: EMSP 201

This course is designed to teach the student the hands-on skills necessary for the Emergency Medical Technician (EMT) level, as well as satisfy EMS clinical and ambulance rotation requirements in order to be certified as an EMT by the Texas Department of Health.

### **FIRT 211 - Internship (3 hours)**

Prerequisite: FIRS 204

This course is designed give the student "real world" fire service experience through internship with a local fire department.

### **FIRT 212 - Firefighter Health & Safety (3 hours)**

Prerequisite: FIRS 204

This course teaches the student fire ground survival techniques, firefighter safety and health, practices and procedures related to emergency and non-emergency operations and components of a firefighter wellness program.

### **FIRT 213 - Fire Prevention, Codes, and Inspection (3 hours)**

Prerequisite: FIRS 204, TCFP Certification

This course will train the student to be a certified fire inspector. The student will learn to apply provisions of local building and fire prevention codes to fire prevention inspections; and describe fire inspection practices and procedures including hazard recognition and correction.

### **FIRT 214 - Fire Investigation (3 hours)**

Prerequisite: FIRS 204, TCFP Certification

This course will train the student to be a certified fire investigator. The student will learn to identify the point of origin and the cause of the fire; list possible motives of fire setters; and describe the elements of investigation practices.

## **Fire Science, A.A.S. through Distance Education**

### **FIRST 215 - Fire Apparatus Pumper - Driver/Operator (3 hours)**

Prerequisite: FIRS 204, TCFP Certification

This course will train the student to become certified to drive a pumper (engine) fire apparatus. The course is designed to teach the student to demonstrate competencies set forth in the TCFP curriculum for Driver/Operator-Pumper.

## Admission

This program is designed for individuals who have completed the fire science courses at Training Division and want to earn an Associate of Applied Science degree in Fire Science. Students seeking admission to the program must submit the following materials to the Office of Distance Education.

1. A formal application for admission
2. Official transcripts of all college or university course work
  - Applicants with fewer than 24 transferable semester credit hours must also submit an official high school transcript *or* official GED test results *and*
  - SAT or ACT score report
3. Official Training Division transcript of fire science course work
4. Formal letter of recommendation from the Training Division
5. Statement of purpose – one page, typed essay describing reasons for desiring to complete a college degree in fire science.

Students will be informed of admission with a formal Letter of Acceptance. Admission to the program is on a space available basis each semester.

## Academic Program

The A.A.S. degree in Fire Science consists of 60 semester credit hours. Twenty seven of these hours will be fire science and emergency medical technician courses transferred from Training Division. Thirty three additional semester hours will be completed consisting of the courses specified in the A.A.S. degree requirements. Graduates will complete a minimum of 24 semester credit hours in residence. They will also meet the required levels of mathematics and computer application proficiency. Transfer credit will be awarded according to University policy. The degree can generally be completed over three semesters, or one calendar year.

## Cost of the Distance Education Program

Distance education tuition is \$402 (50% of regular) per credit hour. There are no additional fees. There are no scholarship or payment plans for this program. All charges must be covered at the time of registration. Students may apply for financial aid and are encouraged to contact the Office of Student Financial Services for assistance.





# Mathematics

## Faculty/Staff

Gerald Springer, Chair; Paulos Berhane, Jonathan Duarte, Lawrence Turner

Adjunct: George Parry

## Programs

- B.A. Mathematics
- B.S. Mathematics
- B.S. Mathematical Physics
- B.S. Mathematics - Secondary Certification
- Minor in Mathematics
- Minor in Mathematics - Secondary Certification

## Aims of the Program

First, we aim to give each student an understanding of basic mathematics and its application to solving problems expressible by algebraic equations and inequalities. Second, we aim to train students to understand the fundamental concepts of mathematics so that they can teach the subject on the elementary or secondary level. Third, we aim to give a solid foundation in the area of mathematics which will prepare students to pursue further studies in mathematics, the physical sciences, economics, and the engineering sciences.

### Mathematics, B.A.

MATH 181	Calculus I.....	4
MATH 201	Research Methods in Mathematics.....	1
MATH 241	Introduction to Probability and Statistics.....	3
MATH 282	Calculus II.....	4
MATH 283	Calculus III.....	4
MATH 341	Geometry.....	3
MATH 361	Introduction to Linear Algebra.....	3
MATH 431	Modern Algebra.....	3
MATH 455	Probability Theory <i>or</i>	
MATH 461	Number Theory.....	3
MATH 485	Portfolio.....	1
MATH	Electives upper division.....	3
	<b>Total:</b>	<b>32</b>

### Mathematics, B.S.

MATH 181	Calculus I.....	4
MATH 201	Research Methods in Mathematics.....	1
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

## Mathematics

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MATH 361	Introduction to Linear Algebra.....	3
MATH 431	Modern Algebra.....	3
MATH 461	Number Theory.....	3
MATH 471	Advanced Calculus.....	3
MATH 485	Portfolio.....	1
MATH	Electives - upper division.....	6
	<b>Total:</b>	<b>41</b>

### Recommended cognate:

CSIS 110	Principles of Computer Programming I..... <i>or equivalent</i>	3
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### Minor in Mathematics

MATH 181	Calculus I.....	4
MATH 282	Calculus II.....	4
MATH 283	Calculus III.....	4
MATH	Electives upper division.....	6
	<b>Total:</b>	<b>18</b>

### Mathematical Physics, B.S.

MATH 181	Calculus I.....	4
MATH 201	Research Methods in Mathematics.....	1
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
MATH 485	Portfolio.....	1
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:</b>	<b>54</b>

### Required cognates:

CHEM 111	General Chemistry I.....	4
CHEM 112	General Chemistry II.....	4
CSIS 110	Principles of Computer Programming I..... <i>or equivalent</i>	3

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 201	Research Methods in Mathematics.....	1
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 485	Portfolio.....	1
MATH	Electives upper division.....	9
	<b>Total:</b>	<b>38</b>

**Minor in Mathematics - Secondary Certification**

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:</b>	<b>26</b>

Courses

**MATH 013 - Algebra (3 hours)**

This course provides the student with a basic understanding of addition, subtraction, multiplication and division of fractions and rational expressions in addition to an understanding of quadratic equations, inequalities and graphing.

This course meets five days a week. This course must be taken with a lab concurrently. This course does not apply toward general education or graduation requirements. (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 013 with a C– or higher or permission of the department

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)

## Mathematics

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### **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 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 a high school Algebra II with a grade of at least a B or MATH 110 with a 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. This course covers first-order differential equations, higher-order differential equations, modeling with differential equations, system of linear differential equations, series solutions, and Laplace transforms. (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. It covers solution of linear equations, roots of polynomial equations, interpolation and approximation, numerical differentiation and integration, solution of ordinary differential equations, and error analysis. The writing of computer programs for solving problems is a part of the course. (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)

## Mathematics

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### **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

Adventist Colleges Abroad Coordinator: Elizabeth Bowser

Adjunct: Ruth DePaiva, Roberto Valencia, Junyu Zhang

## Aims of the Program

Southwestern Adventist University strongly encourages students to study a foreign language. Indeed, foreign language courses are a degree component of all B.A. programs at the University. Southwestern currently offers courses in Chinese, Portuguese, and Spanish.

According to the Council on Foreign Relations, education in the United States should focus on languages that will give Americans an economic competitive edge. The top five languages recommended by the include Chinese and Portuguese.

The Spanish language has also 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.

A second language opens doors to both personal and professional development, and can give recent graduates an advantage when seeking employment in both national and international organizations and corporations.

## Program

- Minor in Spanish

## Minor in Spanish

A minor consists of 18 hours, exclusive of the elementary course or its equivalent, 12 hours of which must be upper division and includes 3 hours of literary analysis. Most often requires at least one year abroad.

## Adventist Colleges Abroad

The Modern Language Department offers 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; Friedensau Adventist University, Germany (academic year only); Instituto Adventista 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.

## Modern Languages

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### Chinese Courses

#### **CHIN 111 - Elementary Chinese I (4 hours)**

Focuses on cultivating student daily conversation abilities in the following situations: greetings, family, dates and time, hobbies, and visiting friends. Course builds students solid Chinese pronunciation system and introduces Chinese written system in terms of the number and order of character stroking and radicals. (Fall)

#### **CHIN 112 - Elementary Chinese (4 hours)**

Prerequisite: Completion of CHIN 111 with a grade of C- or better, or approval of the instructor. Continues to develop listening, speaking, reading, and writing skills on the novice high level. (Spring)

### Portuguese Courses

#### **PORT 111 - Elementary Portuguese I (4 hours)**

This course is designed to teach the Portuguese language in a fast, interesting and efficient way. Attention will be given to the structure of the Portuguese Language. This course does not assume prior knowledge of either Portuguese grammar or of grammatical terms. (Fall)

#### **PORT 112 - Elementary Portuguese II (4 hours)**

This course continues the elementary study of Portuguese begun in PORT 111. Admission to this course requires satisfactory completion of PORT111. (Spring)

#### **PORT 211 - Intermediate Portuguese I (3 hours)**

This course builds on PORT 111 and 112, Elementary Portuguese I and II. It provides an opportunity for students to improve their speaking abilities, gain greater fluency in the language, and acquaint them with terms and concepts that will help improve their comprehension of Portuguese. Satisfactory completion of PORT 111 and 112 is required for entry into this course. (Fall)

#### **PORT 212 - Intermediate Portuguese II (3 hours)**

This course completes the intermediate study of Portuguese. Satisfactory completion of PORT 211 is required for admission to this course. (Spring)

### Spanish 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. Includes 1 lab hour. (Fall-SPAN 111, Spring-SPAN 112)

#### **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.

### **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. (Offered periodically)

### **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. (Offered periodically)

### **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. (Offered periodically)

### **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. (Offered periodically)

### **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. (Offered periodically)

### **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. (Offered periodically)

### **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. (Offered periodically)

### **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. (Offered periodically)



## Faculty/Staff

Jonathan Wall, Chair; Rudyard Dennis, Marc Élysée

Adjunct: Dorla Aparicio, Margaret Griffith, Jeff Hall, Ana Scarone, Dan Totan, Gary Wilcox

## Aims of The Department

The students will develop the skills of listening, hearing, and identifying the elements of music.

The students will develop an understanding through music theory of the foundation of music and apply analytical skills to enrich performance.

The students will gain knowledge and understanding of music history and musical styles.

The students will be able to apply knowledge of musical styles and performance traditions to their repertoire.

The students will develop skills of technical presentation which will allow them to apply their knowledge of styles in a sensitive performance, both in solo and in ensemble work.

The students will learn methods and principles of music pedagogy.

## Entrance Requirements

Incoming students in the Music Degree programs will be examined in two areas: practical piano skills and performance.

1. All incoming Majors and Minors must audition for the music faculty during the first week of their first semester in residence. There are three results to the incoming auditions: Admittance into the Dept of Music as a major or minor, Provisional Status (in which the student must take lessons and re-audition the following semester) and No Admittance.
2. A functional piano performance exam will be given to all incoming music majors. The details of the exam are given in the *Piano Proficiency Folder* and available upon request to any current or prospective student. If students are unable to pass the exam they are required to take piano lessons (MUPF 151) starting no later than the second semester in residence. Modification to the piano performance exam can be made in the event of physical handicap.
3. Success in Music Theory I (MUCT 111) requires basic background knowledge of music theory. Incoming students with theory deficiencies are encouraged to study during the previous summer. The fundamentals of music may be learned online or through self-guided texts or software. Contact the Southwestern Adventist University music department for further information.

## General Requirements for Music Majors

The guidelines found here are not intended to be exclusive or exhaustive. Students should consult the Music Major Handbook which is available from the Music Department. Other than required courses which are found in the bulletin degree descriptions, the Music Major Handbook contains the policies by which the department is operated.

1. *Ensembles*: The music majors and minors are required to take a major ensemble each semester in residence. The major ensembles are the Wind Symphony or Orchestra for

## Music

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instrumentalists and both University Singers and Mizpah Choraliers for singers. Keyboard majors may choose according to their talents and interests.

2. *Recitals*: The music majors and minors are required to be active members of Southwestern's Recital series each semester in residence. The students participation in the recitals will be contingent on their performance for the required masterclasses that precede each recital.
3. *Music Juries*: The music majors will perform each semester for the fulltime music faculty. If their major performance professor is an adjunct teacher, that teacher will be included. A poor jury (Applied Music Examination) performance may result in the student being placed on probationary status as a music major or minor. Regular improvement is expected.
4. *Practice*: Majors will practice 150 hours per semester, while minors will practice 75 hours per semester in their major performance area. Weekly practice sheets detailing each practice are to be filled out and turned in at the beginning of each lesson.
5. *Continuing status*: A student's acceptance into and official continuation in the music program is contingent upon the student's satisfactory academic and performance progress. A letter from the chair, written in advisement with the major's performance teacher, will be placed in the student's file at the end of each school year, encouraging and/or noting areas needing improvement.
6. *Senior recital*: All music majors will perform a senior recital. This is normally given in the final semester of residence. A pre-senior recital, performed before the music faculty at least three weeks before the senior recital, is required. Music minors are encouraged to perform either a senior recital or joint recital at the discretion of their major instructor.
7. *Recital attendance*: Music majors and minors will attend all faculty, general student, guest and senior recitals. These dates will all be posted by the second week of the semester.
8. *Off-campus recitals*: The music major should plan to attend at least two approved off-campus recitals each semester, minors are required to attend one.

*Private lessons*: The music majors and minors will take lessons from one of the teachers at Southwestern Adventist University or one provided by the school. If lessons are taken from non members of the Southwestern teaching faculty without permission, this will be considered grounds for dismissal from the program.

## Programs

- Music, B.A.
- Music Education, B.M.E.
- Bachelor of Music, B.MUS
- Minor in Music

## Music, B.A.

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
MUED 280	Basic Conducting.....	1
MUEN	Music Ensemble (lower division)*.....	2

MUEN	Music Ensemble (upper division)*.....	2
MUHL 311	Music History I.....	3
MUHL 312	Music History II.....	3
MUPF	Applied Music.....	7
MUPF 468	Senior Recital.....	1
	<b>Total:</b>	<b>36</b>

*\*One major ensemble required for each semester in residence.*

**Music Education, B.M.E.**

**Music Education Major Requirements: 135**

**Department of Music: 64**

**Music core: 41**

MUCT 111	Music Theory I.....	3
MUCT 121	Ear Training and Sight Singing I.....	1
MUCT 151	Music Theory II.....	3
MUCT 161	Ear Training and Sight Singing II.....	1
MUCT 221	Music Theory III.....	3
MUCT 251	Music Theory IV.....	3
MUCT 315	Form and Analysis.....	3
MUCT 414	Orchestration and Arranging.....	3
MUCT 420*	Music Composition & Technology.....	3
MUED 253*	Music in the School.....	3
MUED 280	Basic Conducting.....	2
MUED 390	Instrumental Conducting & Literature.....	3
MUED 391	Choral Conducting & Literature.....	3
MUED 475*	Ensemble Management & Administration.....	1
MUHL 311	Music History I.....	3
MUHL 312	Music History II.....	3
MUPF 200	Recital Attendance.....	0

**Pedagogy: Choose four of the following: 8**

MUED 275	Diction for Singers.....	2
MUED 321	Piano Accompanying.....	2
MUED 371	Percussion Methods & Pedagogy.....	2
MUED 372	Brass Methods & Pedagogy.....	2
MUED 373	String Methods & Pedagogy.....	2
MUED 374	Woodwind Methods & Pedagogy.....	2
MUED 451	Voice Methods & Pedagogy.....	2
MUED 452	Piano Methods & Pedagogy.....	2

**Applied Music Lessons & Recital: 8**

Must be enrolled every semester in residence.

MUPF	Applied Music	7
MUPF 468	Music Major Senior Recital	1

# Music

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## Ensembles: 7

- Voice majors must be enrolled in University Singers each semester in residence.
- Instrumental majors must be enrolled in either Wind Symphony or Symphony Orchestra each semester in residence.
- Keyboard majors may choose any of the major ensembles to participate in, for each semester in residence.

## General Education Requirements: 48

### Language/Communication: 12

ENGL 121	Freshman Composition.....	3
ENGL 220	Research Writing.....	3
ENGL 300	upper division Literature.....	3
COMM 111	Speech <i>or</i>	
COMM 113	Oral Interpretation.....	3
	.....	

### Health and Fitness: 4

KINA	Activity Course	1
KINT 111*	Health and Wellness	3

### Mathematics: 3

MATH 110	College Algebra	3
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### Religion: 12

RLGN 101*	Christian Beliefs.....	3
RLGN 201*	Bible Methods.....	3
RLGN 230*	History of the SDA Church.....	3
4th RLGN*	upper division (see advisor).....	3

### Social and Behavior Science: 9

HIST 111	American History 1492-1865.....	3
HIST 112	American History 1866-Present.....	3
PSYC 220*	Human Growth and Development.....	3
	.....	

### Lab Science: 8

BIOL/CHEM/PHYS	.....	4
BIOL/CHEM/PHYS	.....	4
	.....	

### TX State and NAD Education Certification: 23

EDUC 312	Educational Psychology.....	3
EDUC 326	Exceptional Children.....	3
EDUC 385	Philosophy of Education.....	3
EDUC 434	Classroom Assessment.....	3

EDUC 436	Classroom Management.....	2
EDUC 450	Teaching in the Secondary School.....	3
EDUC 485	Directed Teaching.....	6

**Bachelor of Music, B.Mus**

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
MUHL 311	Music History I.....	3
MUHL 312	Music History II.....	3
MUPF	Applied Music.....	7
MUPF 468	Senior Recital.....	1

**Total: 46**

*\*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

**Minor in Music**

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 <i>or</i>	
MUED 381	Instrumental Conducting.....	2
MUED	Pedagogy.....	2
MUEN	Ensemble.....	2
MUPF	Applied Music.....	4

**Total: 22**

# Music

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## Courses

### MUEN - Ensembles (1 hour)

Prerequisite for 300 level courses: 4 semesters credit at the 100 level in the same ensemble. (Fall, Spring)

*MUEN 115	MUEN 315	Choraliers
*MUEN 113	MUEN 313	University Singers
MUEN 123	MUEN 323	Piano Ensemble
MUEN 133	MUEN 333	Chamber Music
*MUEN 145	MUEN 345	Symphony Orchestra
*MUEN 155	MUEN 355	Wind Symphony
MUEN 153	MUEN 353	Southwestern Brass

Membership in all ensembles are by permission of instructor.

\*An ensemble fee of \$50 is applied to all participating students.

## 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.

Private instruction with major teacher in piano, voice, organ, brass woodwinds, percussion, and strings are to be taken on a weekly basis. (Fall, Spring)

Organ lessons with instructor's permission.

MUPF 111/211	MUPF 311/411	Strings
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
MUPF 200		Recital Attendance

### 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 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. (Fall)



**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. An introduction to the library research skills used in the field of teaching and the use of primary and secondary sources including the use of a on-line data bases will be discussed as well as publication styles. **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 School (3 hours)**

Music in the School is a class that focuses on the practical aspects of teaching music in a diverse classroom setting. Catering to the both elementary and secondary concentration areas, this course covers learning and teaching styles, theories and strategies and the ability to engage students in a mixed classroom environment. Students will also engage in activities designed to sharpen critical thinking as well as acquaint themselves with current trends in the discipline of music education. This course will help prepare beginning teachers to understand different aspects of diversity and how they can address these differences in their teaching. (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. (Fall)

**MUED 280 - Basic Conducting (2 hours)**

Prerequisite: MUCT 151

The study and drill of basic conducting patterns and coordination of hand and baton techniques. (Fall)

**MUED 390 - Instrumental Conducting and Literature (3 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 & literature study.

**MUED 391 - Choral Conducting and Literature (3 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. (Spring)

## Music

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### **MUED 475 - Ensemble Management and Administration (1 hour)**

To be taken with Student Teaching & Classroom Management.

The study of ensemble development, recruitment, concert planning, marketing, touring, rehearsing and other logistics in both choral and instrumental settings. (Spring)

### **MUED - Technique and 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 on alternating years)

### **MUED 310 – Voice Methods & Pedagogy**

### **MUED 320 – Piano Methods & Pedagogy**

### **MUED 321 – Piano Accompanying**

### **MUED 340 – String Methods & Pedagogy**

### **MUED 350 – Brass Methods & Pedagogy**

### **MUED 356 – Percussion Methods & Pedagogy**

### **MUED 358 – Woodwind Methods & Pedagogy**

## 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 common period tonal practice. (Fall)

### **MUCT 121 - Ear Training and Sight Singing I (1 hour)**

The lab component to accompany Music Theory I. (Fall)

### **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.

**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. (Spring)

**MUCT 420 - Music Composition and Technology (3 hours)**

Prerequisite: MUCT 221 or permission of the instructor

A course focusing on smaller compositional forms, including ABA, theme and variation and sonatina, as they pertain to contemporary composition. Class will also include lectures on melodic and harmonic development, form, and listening to significant 20th century musical movements. The use of technology and its place in the classroom is studied and implemented into the core curriculum. (Fall)

**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 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.



# 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 (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.



## Faculty/Staff

Ronald Mitchell, Interim Chair; Jean Alway, Krystal Bekalo, Dena Howerton, Kerrie Kimbrow, Lolita Valdez

## Mission

The purpose of the Southwestern Adventist University Department of Nursing is to prepare a competent generalist in the profession of nursing with a Christian perspective of liberal arts, applied theology and natural, behavioral, and nursing sciences. The department seeks to provide a Christian environment, which facilitates growth of the student as a whole person, as a contributing member of society, and as a member of the nursing profession.

## Aims of the Department

The 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) and 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 ([www.bon.state.tx.us](http://www.bon.state.tx.us)) and is accredited with the Commission on Collegiate Nursing Education: One DuPont Circle, NW, Suite 530, Washington, DC 20036-1120. (202) 887-6791

## Programs

- BS Nursing
- RN to BS Nursing
- LVN to BS Nursing

## Admissions

### Application Process

**All Application materials must be submitted, to the Admissions Office, by August 15, application deadline. Late applications and incomplete files will not be considered.**

1. **Apply Online** to Southwestern Adventist University at [www.swau.edu](http://www.swau.edu) [<http://www.swau.edu>]
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 Admissions Office.
3. **Send official transcripts from all schools attended** (high school, colleges and/or universities) to the Southwestern Adventist University Office of Admissions.
4. **Complete and send in all health records:** (physical and health record forms are available at <http://nursing.swau.edu>)

## Nursing

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- a. Physician's Report of Physical Examination
- b. Proof of current immunizations or positive titer as required by the State of Texas (Tdap, MMR, Varicella, Hepatitis B, Meningitis, Influenza)
- c. Current TB Test (negative PPD yearly or chest xray every three years)
- d. Current CPR for the Healthcare Provider
5. **Successfully complete at least 49 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\* (3 semester credits)
    - b. SOCI 111 Introduction to Sociology\* (3 semester credits)
  - *General Education*
    - a. CSIS 102, CSIS 104 or CSIS 110 (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 112 Medical Terminology (1 semester credit)
    - h. RLGN Religion Electives (6 semester credits)
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 each of the following areas: Reading Comprehension, Grammar, Vocabulary and General Knowledge, Math, Anatomy and Physiology.

*\*Completed within the last 7 years with a minimum grade of C or better.*



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## 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 priorities:

1. GPA and HESI Admission Exam scores
2. Applicants who have taken all their academic courses at Southwestern Adventist University
3. Seventh-Day Adventist Applicants who meet the admission criteria
4. Second degree applicants

**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 Admissions Office within 30 days of the admission letter date:
  - a. **\$400 Nursing Deposit** to reserve a place in the January class
  - b. **\$50 Drug Testing fee.** Testing will take place on an unannounced date at the beginning of the semester.
  - c. **Background Check as required by the Texas Board of Nursing.** 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 must follow the application process outlined for the nursing program and submit a letter of good standing from previous nursing program. If accepted, the student will enter the B.S. degree plan at the place determined by the Admissions Committee.

## 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 in a hospital or long-term care facility within the last 4 years.
3. Fulfill the admission criteria and prerequisites for the B.S. program. 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) may be awarded as credit by exam or by transfer of LVN course work.

## 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 or academic integrity and/or displays inappropriate/unprofessional/dishonest or unsafe

- behavior. Additional criteria for continuation in the program are consistent with the standards of the Texas Board of Nursing (TBON).
2. Successful completion of NURS 211 Fundamentals of Nursing and NURS 212 Physical Assessment with a grade of B (84%) or higher is required for progression to 300 level nursing courses. Thereafter students must maintain a minimum grade of C in all nursing courses.
  3. Students are allowed only one repeat of one nursing course for a failed course or for purposes of raising cumulative nursing GPA. NURS 428 Nursing Capstone is exempted from this policy.
  4. A student may only drop one nursing course which must be dropped by the University drop date.
  5. Students who fail or drop a nursing course may progress in their nursing courses upon successful completion of the dropped/failed course on a space-available basis.
  6. Students are required to pass dosage calculation tests periodically throughout the program. Failure to pass in three attempts the dosage calculation test in NURS 211 Fundamentals of Nursing will result in a student contract for remediation as determined by the Nursing Department. Failure to achieve a passing score in dosage calculation test after three attempts for clinical courses in levels III and IV, will prevent the student from continuation in nursing courses that semester and may result in termination from the nursing program.
  7. Students must maintain a cumulative nursing GPA of 2.5 in required nursing courses (see #8) to progress in nursing and to graduate. No grade lower than C (75%) 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.
  8. 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 and NURS 427.
  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. NURS 428 Nursing Capstone requires a score of at least 850 on the comprehensive examination for completion of the course.
  12. Prior to attendance at clinical, all students must provide proof of current Health Care Records which must be maintained.
  13. LVN and RN students must maintain current Texas unencumbered licensure throughout their enrollment in the nursing program.
  14. RN and LVN students must complete nursing courses in the sequence specified in the full-time degree plan.
  15. 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.

If a student is not enrolled at Southwestern for one or more semesters, these must be repeated. Drug screening will be required on an annual basis at the expense of the student.

\*Nursing cognate courses:

BIOL 101, 102, 220, CHEM 105\*, KINT 216, MATH 241, NURS 112, PSYC 212, 220, SOCI 111

\* If taking a two course sequence both courses are required.

### **Termination Policy**

The following situations or conditions will 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 any required dosage calculation test after three attempts
4. Failure to abide by the Honor Code of the Nursing Department
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.

### **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 patients in their own vehicles under any circumstances. This policy protects both the student and the patient. Texas law requires proof of automobile liability insurance.

### **Residency Requirement**

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.

### **Graduation Requirements**

1. Satisfactory completion of 120 semester hours including 61 hours of nursing and 58-67 hours of cognate and general education\*.

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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 the Speech requirement is completed with NURS 425.)
3. A minimum nursing GPA of 2.5.
4. 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 appeals tracking form may be obtained from the advisor.

### Non-Grievable

University policies, regulations or procedures adopted by the University and/or the Board of Trustees are not subject to grievance process. Students may request discussion and recommend changes to such policies, but this dialogue is advisory and not grievable.

## Programs

### Bachelor of Science Major Requirements

NURS 112	Medical Terminology.....	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

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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.....	3
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>34</b>

### General Education Courses

ENGL 121	Freshman Composition.....	3
ENGL 220	Research Writing.....	3
ENGL	Literature Elective.....	3
CSIS 102,	CSIS 104 or CSIS 110.....	1-3
HIST	History Elective (3 hours must be non-American).....	6
KINA	P.E. Elective.....	2
RLGN	Religion Electives (3 hours upper division ).....	6-12
	<b>Total:</b>	<b>24-33</b>

**Degree Total: 120**

### Bachelor of Science in Nursing - Degree Plan

#### First Year

##### Fall

NURS 112	Medical Terminology*.....	1
CSIS	Computer Elective.....	1-3
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>14-16</b>

##### Spring

BIOL 102	Anatomy & Physiology II*.....	4
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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 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.....	3
HIST	Non-American History Elective.....	3
	<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
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 <i>or</i>	
NURS 423	Maternal-Newborn Nursing.....	5
NURS 426	Nursing Leadership.....	3
NURS 427	Medical-Surgical Nursing III.....	4

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KINA	Elective (PE Activity).....	1
	<b>Total:</b>	<b>16</b>
<b>Spring</b>		
NURS 422	Mental Health Nursing <i>or</i>	
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 in the third year and will usually be prepared to graduate with a Bachelor of Science degree in two to four academic semesters. 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 2.50 for lower division courses and a minimum 2.50 GPA for Nursing courses.
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 American Heart Association CPR certification as Health Care Provider.

### RN to BS Completion Program\*

#### Nursing Prerequisite, Cognate and General Education 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.....	3
PSYC 212	General Psychology.....	3

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PSYC 220	Human Growth & Development.....	3
SOCI 111	Introduction to Sociology.....	3
CSIS 102	Microcomputer Literacy and Applications.....	3
ENGL 121	Freshman Composition.....	3
ENGL 220	Research 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
	<b>Total:</b>	<b>58</b>
		(61)

### 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 (or credit by exam).....	4
	<b>Total:</b>	<b>15</b>

### 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
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: 29**

**Total upper division general education credits: 12**

**Total: 41**

\* 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.....	3



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PSYC 212	General Psychology.....	3
PSYC 220	Human Growth & Development.....	3
SOCI 111	Introduction to Sociology.....	3
	<b>Total:</b>	<b>28</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 in a hospital or long-term care facility 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	Medical-Surgical Nursing I Clinical.....	2
	<b>Total: 7 (10)</b>	

### First Year

#### Spring

NURS 201	Information Literacy for Nursing Students.....	1
NURS 210	LVN to RN Bridge.....	1
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 314	Medical-Surgical Nursing 1 (theory only) <i>or</i>	
NURS 315	Medical-Surgical Nursing I.....	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

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RLGN	Religion Elective (upper division).....	3
	<b>Total:</b>	<b>17</b>
<b>Summer</b>		
<b>First Module</b>		
NURS 318C	Child Health Nursing Clinical.....	0
	<b>Total:</b>	<b>0</b>
<b>Third Year</b>		
<b>Fall</b>		
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>
<b>Spring</b>		
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. (The student does not receive nursing credit for this remedial 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, ENGL 220, 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 competencies to implement the nursing process for individuals in diverse settings. 2.5 Theory 7.5 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, ENGL 220, 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 (4 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 patients 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 patients 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, 7.5 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 are 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), 6 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 patients 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 patients 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, 7.5 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 patients 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, 7.5 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, 7.5 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 the 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, 6 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. 6 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 patients in the emergency and critical care environment. Concepts will be discussed involving mass casualty, disaster preparedness, and emergency preparedness as it relates to nursing care delivery. The students apply the professional roles in the provision of care in progressively complex situations. 2 Theory, 6 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

Gerald Springer, 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
- B.S. Physical Science - Secondary Certification
- Minor in Physics

## Mathematical Physics, B.S.

MATH 181	Calculus I.....	4
MATH 201	Resear Methods in Mathematics.....	1
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
MATH455	Probability Theory.....	3
MATH 485	Portfolio.....	1
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:</b>	<b>54</b>

### Required cognates:

CHEM 111	General Chemistry 1.....	4
CHEM 112	General Chemistry II.....	4

## Physics

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CSIS 110	Principles of Computer Programming I.....	3
	or equivalent	

### Minor in Physics

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 3 hours upper division.....	6
	<b>Total:</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 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
CHEM 111	General Chemistry I.....	4
CHEM 112	General Chemistry II.....	4
CHEM 201	Research Methods in the Physical Sciences.....	1
CHEM 231	Organic Chemistry I.....	4
CHEM 232	Organic Chemistry II.....	4
CHEM 341	Physical Chemistry I.....	4
	<b>Total:</b>	<b>47</b>

#### Required cognates:

CSIS 110	Principles of Computer Programming I.....	3
MATH 181	Calculus I.....	4
MATH 282	Calculus II.....	4
MATH 283	Calculus III.....	4
MATH 485	Portfolio.....	1

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## 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 013 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 013 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 or co-requisite: 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 English, History or Social Studies) can be a particularly useful background for law school.

## Pre-Medicine

Advisor: **Peter McHenry**

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: **Amy McHenry**

A Doctor of Pharmacy program is a graduate program building upon any four-year baccalaureate degree from Southwestern Adventist University that includes a specified list of prerequisites. Southwestern Adventist University coordinates with the pharmacy program at Loma Linda University. <http://mps.swau.edu/pre-pharm/>

## Other Pre-professional Programs and Advisors

Pre-Chiropractic	Peter McHenry	Biology
Pre-Dental Hygiene	Amy McHenry	Biology

## Pre-professional Programs

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Pre-Health Informatics	Amy McHenry	Biology
Pre-Nutrition	Amy McHenry	Biology
Pre-Occupational Therapy	Amy McHenry	Biology
Pre-Optometry	Amy McHenry	Biology
Pre-Orthotics and Prosthetics	Amy McHenry	Biology
Pre-Osteopathy	Peter McHenry	Biology
Pre-Physician Assistant	Amy McHenry	Biology
Pre-Public Health	Amy McHenry	Biology
Pre-Speech Pathology	Amy McHenry	Biology
Pre-Veterinary Medicine	Peter McHenry	Biology
Pre-X-Ray Technology	Amy McHenry	Biology

## 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)

### **DENT 201 - Introduction to Dentistry (1 hour)**

This course introduces students into the field of dentistry and dentistry related disciplines. Students will learn about dental anatomy and disease, as well as radiology and pharmacology as it relates to dentistry. Students will become aware of dental specialties such as Oral Surgery, Orthodontics, Endodontics and Pedodontics, as well as responsibility of those in various ancillary positions in a typical dental practice. Students will gain practice carving a tooth as well as learn about the management of a dental practice. A field trip to a local office is required. Pass/no pass course. (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)**

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; Lynette Frantzen

Adjunct: Jeremy Carter, Maureen Earlington

## Aims of the Program

The goals of the department are to serve those who are interested in majoring in psychology and those who wish to pursue advanced degrees in the areas of psychology and counseling. This degree is designed as a basis for graduate work 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
- Minor in Psychology

### 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	Elective.....	3
	<b>Total:</b>	<b>36</b>

### Required Cognates:

MATH 241	Intro to Probability and Statistics.....	3
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### Minor in Psychology

PSYC 212	General Psychology.....	3
PSYC 220	Human Growth and Development.....	3
PSYC 340	Abnormal Psychology.....	3
PSYC	Electives 6 hours upper division.....	9
	<b>Total:</b>	<b>18</b>

# Psychology

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## Psychology, B.S., emphasis in 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
	<b>Subtotal:</b>	<b>33</b>

### Education Courses:

EDUC 312	Educational Psychology.....	3
EDUC 350	Educational Technology.....	3
EDUC 364	Kindergarten Materials & Methods.....	3
EDUC 382	Reading and Language Arts in the Elementary School.....	3
EDUC 385	Philosophy of Education.....	3
EDUC 386	Mathematics in the Elementary School.....	3
EDUC 413	Science in the Elementary School.....	3
EDUC 416	Legal and Philosophical Foundations.....	3
EDUC 419	Social Studies in the Elementary School.....	3
EDUC 424	Language Arts Essential Skills in the Elementary School.....	3
EDUC 434	Classroom Assessment.....	3
EDUC 436	Classroom Management.....	3
EDUC 475	Directed Teaching in the Elementary School.....	6
	<b>Subtotal:</b>	<b>42</b>

### Required Cognates:

POLS 211	National and Texas Constitution.....	3
MATH 241	Intro to Probability and Statistics.....	3
	<b>Total:</b>	<b>81</b>

## Bachelors of Science in Psychology, emphasis School Guidance

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 3.0 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 and Psychology Department, or other work supervisor.
4. All potential candidates will have an interview with the Education/Psychology Department before being fully accepted into the Composite Program. See Technical Standards in Pre-Service Teacher Candidate Handbook.

### **Degree Plan**

After the student has been admitted to this program, they should develop a degree plan with their major advisor and the Department of Education and Psychology. The plan will show the declared major with certification area, the work completed and the remaining requirements for the degree. Copies of the degree plan will be filed with the Registrar's Office, Education and Psychology Department and the major advisor.

### **Retention in this Program**

To be retained in this program, students must:

1. Maintain a cumulative 3.00 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.** Must be taken in the sophomore year to comply with portfolio requirements. (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 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.

### **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. Class must be taken in the junior year, and will serve as checkpoint #1 for the psychology department e-portfolio. (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)**

Prerequisite: PSYC 340

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** and is the final portfolio checkpoint. (Spring) Senior year only.

## Psychology

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### **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.

# Religion

## Faculty/Staff

Jorge Rico, Chair; Joaquim Azevedo, William Kilgore, Ingo Sorke

Adjunct: Russ Laughlin, Theodore Stewart, Lloyd Willis

## Aims of the Department

Religious Education at Southwestern Adventist University facilitates the understanding, appreciation, and application of:

- the Bible
- a Christian worldview
- Seventh-day Adventism

Specifically, our theological training emphasizes a Christ-centered and Bible-based education on campus, in the classroom, and in the community, balancing theory and practice and harmonizing the dynamics of the local church and global mission within a specifically Seventh-day Adventist context. We integrate a multifaceted matrix of Inspiration - Implication - Implementation - Involvement.

## 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
- B.A. Religion
- Minors in Religion, Biblical Languages
- Certificate in Church Ministry

## Religion, 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 331	History of Christianity I.....	3
RLGN 332	History of Christianity II.....	3
RLGN 410	Biblical Studies Seminar I or	
RLGN 411	Biblical Studies Seminar II.....	3
RLGN	Electives.....	9
	<b>Total:</b>	<b>34</b>

*Electives to be selected from the following courses:*

RLGN 315	Old Testament I.....	3
RLGN 316	Old Testament II.....	3
RLGN 339	New Testament I: The Gospels.....	3
RLGN 340	New Testament II: The Letters.....	3

## Religion

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### 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	Pastoral Ministry I.....	3
RLGN 424	Pastoral Ministry II.....	3
RLGN 425	Field Evangelism.....	3
RLGN 427	Hospital Ministry.....	1
RLGN	Electives.....	9
	<b>Total:</b>	<b>53</b>

*Electives to be selected from the following*

*courses:*

RLGN 315	Old Testament I.....	3
RLGN 316	Old Testament II.....	3
RLGN 339	New Testament I: The Gospels.....	3
RLGN 340	New Testament II: The Letters.....	3

### 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.

### Recommended Cognates:

HIST 364	Ancient Cultures.....	3
NURS 491	Selected Topics: Frontier Missions.....	1
NURS 491	Selected Topics: 8 Natural Remedies.....	1

### Minor in Biblical Languages

RELL 240, 241	New Testament Greek I, II.....	9
RELL 340	Intermediate New Testament Greek.....	3
RELL 343, 344	Biblical Hebrew I, II.....	6
RLGN 314	Origin & Development of the Bible.....	3
	<b>Total:</b>	<b>21</b>

### Minor in Religion

RLGN 101	Christian Beliefs.....	3
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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	
RLGN 339	New Testament I: The Gospels <i>or</i>	
RLGN 340	New Testament II: The Letters.....	6
<b>Total:</b>		<b>18</b>

## Ministerial Program

The department welcomes persons who sense a call to full-time ministry, and who are moved to offer their lives in this avenue to God and humanity. The faculty assists applicants who wish to evaluate and deepen their experience as well as to explore the expanding opportunities for service. The department will not recommend to the ministry any student who has not completed the course of study as outlined or who has a GPA that is less than 2.5, which is the minimum requirement for entrance to the SDA Theological Seminary. It is the student's personal responsibility to plan a course of study that includes all requirements for degree sought.

Completion of the major in Theology meets the guidelines stipulated by the Adventist Church and the minimal requirements for admission to the Seminary and entrance into the ministry.

### B.A. in Theology

This program is designed to prepare pastors who are able to integrate theological knowledge with pastoral training for excellence in ministry. Emphasis is placed on such areas as biblical understanding and personal application, church leadership and administration, evangelism, and pastoral service to the church.

The program in pastoral ministry is focused on facilitating the development of the student as a:

- Growing Christian
- Church Leader/Administrator
- Pastor-Teacher and Equipper
- Pastor-Servant
- Soul Winner

This program follows a special two-stage composite sequence, each stage approximately two years in length. During the first stage (freshman and sophomore years), attention is concentrated on fulfilling the requirements of the core curriculum of the University, together with introductory Religion classes. 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. It also grants preferred opportunities for summer ministry opportunities.

The second stage (junior and senior years) provides for completion of requirements for the bachelor of arts degree, including specific professional studies. It is also the period when the student becomes more involved in practical aspects of ministerial training.

## Religion

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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 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 an integral part of the theology degree. Theology graduates will subsequently seek employment as Pastors in local conferences, pursue careers in chaplaincy, or proceed to the Seminary for in-depth training after field experience (e.g., Associate Pastor with a conference).

Theology students are encouraged to become involved in witnessing and spiritual activities throughout their time in college. However, the last two years are particularly focused on ministry as they are required to participate in the student-pastor program. Those who are accepted in the Pastoral Ministry Certification Program will be assigned to churches mainly within the Dallas-Fort Worth area to gain practical pastoral experience. During this time, students will need to make transportation arrangements to ensure compete participation. This 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 need recommendation from the Religion Department in order to be 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 on the student maintaining satisfactory academic progress, exemplary social and cultural development, and dedication to the principles of the Christian faith and practice as taught by the Seventh-day Adventist Church. Graduates will demonstrate proficiency in the areas of biblical studies, theological studies, historical studies, and practical studies prior to graduation via a Senior Theology Major Exit Exam (administered by the department chair at the end of a student's final semester).

In fulfillment of the requirements for the classes RLGN 423 & 424 Pastoral Ministry I, II, senior theology students prepare a paper describing their personal call and philosophy of ministry. Each paper is reviewed by the members of the Religion faculty and followed by a personal exit interview with the Religion faculty. The composite results of this paper and interview constitute the basis for departmental recommendation for both ministerial work and the Theological



Seminary. Subsequently, arrangements are made for senior theology majors to be interviewed by conference presidents.

## **Courses**

### **RELL 240 - New Testament Greek I (5 hours)**

### **RELL 241 - 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 - 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. The second semester will include grammar review, but will focus on translation from selected Old Testament passages. Includes preparation for the Seminary Hebrew exam. (RELL 343 Fall, RELL 344 Spring)

### **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 students various strategies in studying and teaching the Bible. Students will learn different study methods like the thematic, biographical, and word study as well as creating learning environments and developing lessons using a model of teaching repertoire. This class is required for Seventh-day Adventist Denominational Certification, and it is also taught as EDUC 263. (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's Quality Enhancement Plan.** (Spring)

## Religion

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### **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 study of the life and teachings of Jesus as outlined in the Gospels, including His principles, methods, and instructions in light of their application to modern life. (Fall, Spring)

### **RLGN 212 - 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 prepare and 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 - 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 - 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 hour)**

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 study of the history and development of the written material and canon of Scripture, covering the Old Testament, intertestamental literature, and the New Testament. It also reviews the development of the English Bible and evaluates different translations. (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: Pentateuch and The Writings. Spring topics: Prophets and Historical Books. (RLGN 315 Fall, RLGN 316 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 in various church settings. (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 339 - New Testament I: The Gospels (3)****RLGN 340 - New Testament II: The Letters (3 hours)**

The world and literature of the New Testament, including theme and purpose of each book and applications to Christian life. Fall: Gospels-Acts. Spring: Romans-Revelation. (RLGN 339 Fall, RLGN 340 Spring)

### **RLGN 360 - Philosophy and the Christian Worldview (3 hours)**

An introduction to philosophy from a biblical perspective and toward the formation of a Christian worldview. This course addresses the major questions of life such as: What is real? What is true? Who is God? Who am I? Why evil? Philosophical answers to these questions will be critically engaged from the standpoint of a distinctively biblical worldview. Attention is given to analytical tools for evaluating the truth of ideas and understanding the nature of existence and reality within the context of mature faith. (Fall)

### **RLGN 405 - Biblical Theology (3 hours)**

Prerequisite: RLGN 101 and at least one of the following: RLGN 315, 316, 339, 340

This course consists of the study of several selected topics approached from a biblical perspective, which may include topics such as biblical inspiration and interpretation, the doctrine of God, the doctrine of Christ, the doctrine of Salvation, the doctrine of the Church, eschatology, and the doctrine of the sanctuary. These studies focus upon the contributions of several biblical writers to each doctrinal issue. Some attention is also given to the way in which selected writers have handled the theological issues and biblical material. (Fall)

### **RLGN 410, 411 - Biblical Studies Seminar I, II (3, 3 hours)**

Prerequisites: RLGN 315, 316, 339 or 340

Prerequisite for RLGN 411: RELL 240

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 Southwestern'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 - Pastoral Ministry I, II (3, 3 hours)**

Prerequisites: PSYC 212, RLGN 425

This class is designed for senior ministerial students. It covers applied studies in church ministry, like pastoral leadership, care, visitation, counseling, and church administration with special attention to organization and finances. The course will be enriched by visits of specialists. This course also requires students to take the Seminary's Church Policy exam a pre-requisite for admission in the M.Div. program. Its successful completion is valid for two years. **These courses fulfill the requirement for a capstone/portfolio completion course with components as specified in Southwestern's Quality Enhancement Plan.** (RLGN 423 Fall, RLGN 424 Spring)

**RLGN 425 - Field Evangelism (3 hours)**

Prerequisite: RLG 220

This course provides classroom instruction and practical involvement in a main evangelistic crusade led by a successful professional evangelist. The evangelist's meetings are followed by the students' own three-week series in churches selected by the hosting Conference. All facets of the course are taught in the city where the series is conducted. Taught on an arranged basis. (Summer)

**RLGN 427 - Hospital Ministry (1 hour)**

Prerequisite: Admission to junior or senior-level standing.

This course provides opportunity for students to develop professional ministry skills in the particular field of institutional health care. Concentration of communication, assessment, collaboration with health care professionals, and exploration of personal and professional identity is particularly emphasized. (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 15 semester hours of college credit. These credits may be transferred to any other accredited college or university and may be applied toward a degree at Southwestern Adventist University. The curriculum is also designed to help church lay leaders increase their knowledge and skills and be better equipped to work in various positions of lay leadership.

The Certificate in Church Ministry does not prepare candidates for full-time employment in pastoral ministry nor does it constitute an alternative theology degree. Anyone choosing full-time ministry as a goal for life must enroll in a four-year BA Theology program. Although the program will be entirely offered on-line, a number of courses can also be taken as traditional classes on the campus of Southwestern Adventist University in the current semester format. The courses in the certificate program are offered in either English or Spanish. The Spanish version, however, is only available on-line.

## Admission

The Certificate in Church Ministry is open to persons age 25 or older who have served in positions of lay leadership and are officially endorsed by their local congregations or conferences. Applicants must have a high school diploma or its equivalent. Previous college work is not required, but recommended. Applicants must:

1. Complete an application for admission into the certificate program
2. Send a non-refundable \$25 application fee

## Religion

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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 230	History of the SDA Church.....	3
RLGN 285	Church Ministry.....	3
	<b>Total:</b>	<b>15</b>

### Cost of the Certificate

Each course will cost \$400 per course. The Certificate in Church Ministry is an accredited program. Local churches and conferences may provide students with scholarships for this certificate. There are no scholarships available from the University. All charges must be covered at the time of registration.

### Academic Support Services

Students taking the certificate program will have access to important academic support services including library and learning resources, information on distance education technology, and the writing center.

### Courses

Distance Education Church Ministry Online 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, academic advising, registration, course materials, certificate audits, and graduation assistance.

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# Administration

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Joel Wallace, C.P.A.....	Vice President for Financial Administration

## Administrative Services

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Tina Bottsford, B.S.....	Director for Enrollment
Kip Bowser, B.S.....	Director of Client Services
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Diem Dennis, M.Ed.....	Associate Director, Records
Robert Gardner, Ph.D.....	Registrar, Records
Rahneeka Hazelton, M.A.....	Director of Admissions
Jason Kowarsch, M.A.....	Assistant Director, Records
Russ Laughlin, M.Div.....	Vice President for Spiritual Development
Charles Lewis, B.A.....	Director of Information Technology Services
Eder Marski, M.B.A.....	Systems Administrator
David Mendoza, B.S.....	Senior Software Engineer
Patricia Norwood, B.S.....	Assistant Vice President for Student Financial Services
Jerry Potter, M.B.A.....	Assistant Student Accounts Director
Marsha Rasmussen, A.M.L.S.....	Technical Services Librarian
Denise Rivera, B.S.....	Human Resources Director
Andrew Smith, Ed.D.....	Director for the Center of Academic Success and Advising
James The, M.Ed.....	Vice President for Student Services
Robert Thompson, B.S.....	Network Administrator
Cristina Thomsen, M.A., M.S.....	Librarian
Duane Valencia, M.B.A.....	Student Accounts Advisor
Alfredo Vergel, M.L.S.....	Associate Librarian, Public Services
Sharon Wicker, B.B.A.....	Accountant
Greg Wicklund, C.P.A.....	Assistant Vice President for Financial Administration
Edna Yanez-Perez, M.B.A.....	Cashier

## Campus Services

Sean Amos, B.S.....	Director for Campus Services
Dorie Cruz, M.A.....	Director of Students with Disabilities
Dale Hainey.....	Director for Physical Plant
Will Iverson, B.S.....	Dean of Men
Juan Carlos Enriquez, B.S.....	Director for Custodial Services
Darla Sullivan.....	Assistant Director for Food Service
Greg Sullivan, B.S.....	Executive Chef/Director for Food Service
Janelle Williams, M.Ed.....	Dean of Women
Marcela Wall, M.S.A.....	Director for Bookstore



# Faculty

## President Emeritus

**Eric D. Anderson, Ph.D.**

*B.A., Andrews University, 1970; M.A., University of Chicago, 1972; Ph.D., University of Chicago, 1978.*

## Emeriti Faculty

**Clinton J. Anderson, M.A.**

Librarian

*B.A., Andrews University, 1963; M.A.T., Andrews University, 1976.*

**John W. Boyd, D.A.**

Music

*B.A., Walla Walla College, 1969; M. M., Lewis & Clark College, 1974; D.A., University of Northern Colorado, 1998.*

**Watson L. Chin, Ph.D.**

Mathematics

*B.A., Andrews University, 1963; M.A., Ohio State University, 1966; Ph.D., Illinois Institute of Technology, 1973.*

**R. Edwin Connell, M.A.**

Computer Science

*B.A., Union College, 1964; M.A., Andrews University, 1972.*

**Robert Cooper, M.S.**

Librarian

*B.S., Union College, 1952; M.S., University of Southern California, 1966.*

**Laurice Durrant, Ed.D.**

Nursing

*B.S.N., Union College, 1951; M.S., Stanford University, 1965; Ed.D., Stanford University, 1971.*

**Bonnie Gnadt, Ph.D.**

Nursing

*B.S., Union College, 1964; M.S.N., Washington University, 1969; Ph.D., University of North Texas, 2004.*

**Barbara Harsany, M.S.**

PE/Wellness

*B.S., Walla Walla College, 1959; M.S., University of Southern California, 1962.*

**Karl Konrad, Ph.D.**

Chemistry

*B.A., Andrews University, 1963; M.S., Illinois Institute of Technology, 1966; Ph.D., Illinois Institute of Technology, 1969.*

**Morris Lowry, M.A.**

History

*B.A., Pacific Union College, 1939; M.A., Texas Christian University, 1951; M.A., Seventh-day Adventist Theological Seminary, 1954. Additional graduate study at University of Colorado, Texas Christian University.*

## Faculty

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**Richard L. McCluskey, Ph.D.** Biology  
*B.A., Andrews University, 1961; M.A., Walla Walla College, 1966; Ph.D., University of North Texas, 1972.*

**Marie Redwine, Ph.D.** Academic Vice President  
*B.S., Union College; 1958; M.S., Northern Illinois University, 1971; Ph.D., Texas Woman's University, 1980.*

**Carol Sample, Ph.D.** English  
*B.A., Union College, 1947; M.A., East Tennessee State University, 1962; Ph.D., Texas Christian University, 1975. Additional graduate study at University of Maryland.*

**Erwin Sicher, Ph.D.** Education and Social Sciences  
*B.A., Atlantic Union College, 1958; M.A., Pacific Union College, 1959; Ph.D., University of Southern California, 1970; Ph.D., Texas Woman's University.*

**Catherine K. Turner, Ph.D.** Nursing  
*B.S., Columbia Union College, 1963; M.S.N., University of Tennessee, 1980; Ph.D., Andrews University, 1995.*

**Charles M. Underhill, Ed.D.** Education/Religion  
*B.A., Union College, 1949; M.A., Colorado State College of Education, 1956; Ed.D., Texas A&M University, 1968.*

**Arthur L. White, M.B.A.** Business Administration  
*B.S., Walla Walla College, 1956; M.B.A., University of Washington, 1957. Additional graduate study at University of Washington.*

**Lloyd A. Willis, Ph.D.** Religion  
*B.A., Pacific Union College, Avondale Campus, 1961; M.A., Andrews University, 1970; Ph.D., Andrews University, 1982.*

## 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*

**Michael Agee, M.A.** Associate Professor of Communication, 2010  
*B.S., Southwestern Adventist College, 1981; M.A., University of Texas at Arlington, 2014*

**Jean Alway, M.S.N.** Associate Professor of Nursing, 1995  
*B.S., Loma Linda University, 1975; M.S.N., University of New Mexico, 1992*

**Joaquim Azevedo, Ph.D.** Associate Professor of Religion, 2014  
*B.A., SDA Theological Seminary, Brazil, 1988; M.A., Andrew University, 1994; Ph.D., Andrews University, 1999*

**Paulos Berhane, M.S.** Associate Professor of Math/Physical Sciences, 2007  
*B.S., University of Texas at Dallas, 1994; M.S., University of Texas at Dallas, 2000;*  
*M.S., University of Texas at Dallas, 2013*

**Donna Berkner, Ed.D.** Associate Professor of Education, 2012  
*B.S., Southwestern Adventist University, 1992; M.Ed., Tarleton State University, 1996;*  
*Ph.D., University of Phoenix, 2012*

**Elizabeth Bowser, M.A.** Assistant Professor of History, 2006  
*B.A., Pacific Union College, 1994; M.A., University of California at Riverside, 2000*

**Thomas G. Bunch, Ed.D.** Professor of PE/Wellness, 1977  
*B.S., Pacific Union College, 1966; M.A., California State, 1968; Ed.D., Brigham Young*  
*University, 1977*

**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*

**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*

**Jayne Doneskey, M.A.** Assistant Professor in English, 2013  
*B.S., La Sierra University, 1981; M.A., La Sierra University, 1989*

**Renard K. Doneskey, Ph.D.** Professor of English, 1999  
*B.A., Southwestern Adventist College, 1981; M.A., Andrews University, 1983; Ph.D.,*  
*University of California, 1987*

**Jonathan Duarte, Ph.D.** Associate Professor of Mathematics, 2014  
*B.S., Cagayan de Oro College, Philippines, 1999; M.S., Illinois State University, 2003;*  
*Ph.D., Illinois State University, 2010*

**Marc Élysée, D.M.A.** Assistant Professor of Music, 2012  
*B.Mus., McGill University, Canada, 2003; M.Mus., Andrews University, 2006; D.M.A.,*  
*James Madison University, 2010*

**Michael G. England, Ed.D.** Professor of Education, 1996  
*B.S., Andrews University, 1977; M.A., Western Carolina University, 1980; M.Ed.,*  
*Walla Walla College, 1986; Ed.D., Andrews University, 1997*

**Miguel Espinosa, M.Ed.** Assistant Professor of Computer Science, 2006  
*B.S., Montemorelos University, Mexico; 1991, M.Ed., Southwestern Adventist*  
*University, 2003*

## Faculty

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**Lynette Frantzen, Ph.D.** Assistant Professor of Psychology, 2015  
*B.A., Walla Walla University, 1997; M.A., Western New Mexico University; Ph.D., Capella University, 2012*

**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*

**Fred Harder, Ph.D.** Professor of Business, 1997  
*B.S., Andrews University, 1959; M.A., Andrews University, 1963; Ph.D., University of California at Los Angeles, 1980*

**Dena Howerton, M.S.N.** Assistant Professor of Nursing, 2012  
*B.S., Southwestern Adventist University, 1996; UTSW Parkland School of Nurse-Midwifery. Advanced Practice Certificate in Nurse-Midwifery, 2000; M.S.N., Texas Women's University, 2001*

**Chad Hutchinson, M.S.Ed.** Assistant Professor of Kinesiology, 2005  
*B.S., Southern Adventist University, 1998 ; M.S.Ed., Southern Adventist University, 2004*

**R. Steven Jones, Ph.D.** Professor of History, 1997  
*B.A., Northern Oklahoma State University, 1988; M.A., Oklahoma State University, 1990; Ph.D., Oklahoma State University, 1997*

**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*

**Kerrie Kimbrow, M.S.** Assistant Professor of Nursing, 2010  
*B.S.N., Union College, 1988; M.S., Loma Linda University, 1993*

**Monica Kowarsch Gonzalez, M.A.** ESL, Director, 2004  
*B.S., Southwestern Adventist University, 2001; M.A., The University of Texas at Arlington, 2007*

**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*

**Nicholas Madhiri, Ph.D.** Associate Professor of Chemistry, 2011  
*B.S., University of Zimbabwe, 1999; Ph.D., West Virginia University, 2006*

**Amy McHenry, Ph.D.** Assistant Professor of Biology, 2011  
*B.S., Union College, 2004; Ph.D., Notre Dame, 2009*

**Peter McHenry, Ph.D.** Associate Professor of Biology, 2011  
*B.S., Union College, 2003; Ph.D., Notre Dame, 2009*

**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*

**Aaron Moses, Ph.D.** Associate Professor of Business, 2011  
*B.B.A., Northwood University, 2000; M.S., University of Texas at Arlington, 2008; Ph.D. University of Texas at Arlington, 2012*

**Vesa T. Naukkarinen, M.S.** Associate Professor of Kinesiology, 2010  
*B.S., Southwestern Adventist University, 1999; M.S., University of North Texas, 2001*

**Ana Patterson, M.B.A.** Assistant Professor of Business, 2012  
*B.B.A., Southwestern Adventist University; 1995, M.B.A., Southwestern Adventist University, 2012*

**Kyle Portbury, M.A.** Associate Professor of Communication, 2015  
*B.A./BTch., Avondale College, 2002; M.A., Uiveristy of Arts London, 2007*

**Marsha Rasmussen, A.M.L.S.** Associate Librarian, 1976  
*B.A., Andrews University, 1971; A.M.L.S., The University of Michigan, 1975*

**Chanda Reins, M.B.A.** Instructor in Business, 2012  
*B.B.A., Southwestern Adventist University, 2009; M.B.A., Southwestern Adventist University, 2012*

**Jorge Rico, D.Min., Ph.D.** Professor of Religion, 2006  
*B.A., Columbia Union College, 1986; M.Div., Andrews University, 1989; D.Min., Andrews University, 1997; Ph.D., Andrews University, 2006*

**Glendal P. Robinson, Ph.D.** Professor of Communication, 1998  
*B.A., Pacific Union College, 1975; M.A., California State University, 1988; Ph.D., University of North Texas, 2004*

**Amy Rebok Rosenthal, Ph.D.** Associate Professor of History, 2012  
*B.S., Pacific Union College, 1999; M.A., Indiana University, 2001; Ph.D., Indiana University, 2010*

## Faculty

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**Marcel Sargeant, Ph.D.** Professor of Education, 2002  
*B.S., University of Guyana, 1987; M.A., Andrews University, 1995; Ph.D., Andrews University, 2003*

**Arthur Schwarz, Ph.D.** Associate Professor of Biology, 2011  
*B.S., Walla Walla College, 1978; M.S., Walla Walla College, 1984; Ph.D. University of Saskatchewan, 1988*

**Ingo Sorke, Ph.D.** 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.** 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*

**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*

**Cristina Thomsen, M.S.** Associate Librarian, 2004  
*B.A., Southwestern Adventist College, 1978; M.A., Loma Linda University, 1981; M.S., University of Texas at Austin, 2004*

**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*

**Alfredo Vergel, M.L.S.** Associate Librarian, 2009  
*B.S., Corporacion Universitaria, Medellin Colombia, 1993; M.L.S., Queens College, 2010*

**Jonathan Wall, M.Mus.** Assistant Professor of Music, 2009  
*B.Mus., Andrews University, 2005; M.Mus., Andrews University, 2013*

**Karl G. Wilcox, Ph.D.** 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*

**Jared Wood, ABD** Assistant Professor of Biology, 2015  
*B.S., Southeastern Oklahoma State University, 2010; Ph.D., University of Louisville, 2015*



**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*

**Adjunct Faculty**

**Business Administration**

Heath Beaty, M.B.A.  
James Winegardner, J.D.

**Communication**

Milton Siems, Ed.D.

**Education/Psychology**

Carol Campbell, Ph.D.	Education
Jeremy Carter, Psy.D.	Psychology
Ruth DePaiva, Ph.D.	Psychology
Maureen Earlington, M.S.	Psychology
Carlos Estrada, M.Ed.	Education
Mary Jacobs, M.Ed.	Education

**English as a Second Language**

David Diaz, M.A.  
Jayne Doneskey, M.A.  
Melanie Padon, B.S.

**Music and Art**

Dorla Aparicio, M.M.	Music
Joy Chadwick, B.F.A.	Art
Margaret Griffith, D.M.A.	Music
Jeff Hall, M.Mus.	Music
Ana Scarone, M.Mus.	Music
Dan Totan, M.Mus.	Music
Marcela Wall, M.S.A.	Art
Gary Wilcox, M.S.	Music

**History, Social Science, including Modern Languages**

Ruth DePaiva, Ph.D.	Portuguese
Cristina Thomsen, M.A., M.S.	Geography
Roberto Valencia, M.A.	Spanish
Junyu Zhang, M.S.	Chinese

**Kinesiology**

Wayne Baker, B.S.	Fire Science
Brent Batla, M.S.	Fire Science
Tyler Bray, M.S.	
Emerson DePaiva, M.D.	
Mick Moffitt	Fire Science

## Faculty

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Francis Nicholas, B.S.  
Embedzayi Tsanzi, M.A.  
Kim Vanhoose, B.A.

### **Math/Physical Sciences**

George Parry, Ed.D.

### **Religion**

Russ Laughlin, M.Div.  
Theodore Stewart, M.Div.  
Lloyd Willis, Ph.D.

# Academic Departments

*First name listed is chair.*

## **Department of Biology, including Medical Laboratory Science**

- Arthur Schwarz, Ph.D.
- Arthur Chadwick, Ph.D.
- Amy McHenry, Ph.D.
- Peter McHenry, Ph.D.
- Jared Wood, Ph.D.

## **Department of Business Administration**

- Aaron Moses, Ph.D
- Fred Harder, Ph.D
- Ana Patterson, M.B.A.
- Chanda Reins, M.B.A.

## **Department of Communication**

- Michael Agee, M.A.
- Alison Hill, M.A.
- Kyle Portbury, M.A.
- Glendal P. Robinson, Ph.D.

## **Department of Computer Science**

- Daryl D. Thomas, Ph.D.
- Miguel Espinosa, M.Ed.
- Judith Miles, M.A.

## **Department of Education & Psychology**

- Marcel Sargeant, Ph.D.
- Mark Aldridge, Ph.D.
- Donna Berkner, Ed.D.
- Michael England, Ed.D.
- Lynette Frantzen, Ph.D.
- Cheryl The, M.A.

## **Department of English**

- Susan Gardner, Ph.D.
- Renard Doneskey, Ph.D.
- Jayne Doneskey, M.A.
- Judy Myers Laue, Ph.D.
- Karl Wilcox, Ph.D.
- Andrew Woolley III, Ph.D.

## **Department of History, Social Sciences, including Modern Languages & English as a Second Language**

- R. Steven Jones, Ph.D.

## Academic Departments

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- Elizabeth Bowser, M.A.
- Monica Kowarsch Gonzalez, M.A.

### **Department of Kinesiology**

- Vesa Naukkarinen, M.S.
- Chad Hutchinson, M.S.Ed.

### **Department of Mathematics & Physical Sciences, including Chemistry, Physics**

- Gerald Springer, Ph.D.
- Paulos Berhane, M.S.
- Jonathan Duarte, Ph.D.
- Nicholas Madhiri, Ph.D.
- Lawrence Turner, Ph.D.

### **Department of Music**

- Jonathan Wall, M.Mus
- Marc Élysée, D.M.A.
- Rudyard Dennis, D.M.A.

### **Department of Nursing**

- Ronald Mitchell, Ph.D. (Interim Chair)
- Jean Alway, M.S.N.
- Krystle Bekalo, M.S.N.
- Kerrie Kimbrow, M.S.
- Dena Howerton, M.S.N.
- Lolita Valdez, M.S.N.

### **Department of Religion**

- Jorge Rico, Ph.D.
- Joaquim Azevedo, Ph.D.
- Bill Kilgore, D.Min.
- Ingo Sorke, Ph.D.