

# ACADEMIC CALENDAR

**2004-2005**

## FALL SEMESTER, 2004

August	18	Wednesday	ESL Registration
	25	Wednesday	SAT Test
	26-29	Thurs-Sun	Freshman Orientation
	27	Friday	International New Student Orientation
	29-30	Sun-Mon	Registration
	31	Tuesday	Instruction Begins, Late Registration Begins
September	1	Wednesday	Late International New Student Orientation
	6	Monday	Last Day to Register or Add a Class
	10	Friday	Last Day to Drop from a Class without receiving a "W"
October	8	Friday	Fall Holiday (Begins at Midnight on Thursday)
	21	Thursday	Mid-Semester
	24	Sunday	Senior College Base Test
	27	Wednesday	Senior College Base Test
November	16	Tuesday	Last Day to Withdraw from a Class
	18	Thursday	Spring 2005 Pre-registration Begins
	23	Tuesday	Thanksgiving Break Begins at 5:00 pm
	29	Monday	Instruction Resumes
December	12	Sunday	Senior Major Exit Test
	13-16	Mon-Thurs	Examinations
	14	Tuesday	ESL Completion
	16	Thursday	Christmas Vacation begins at 11:30 am

## SPRING SEMESTER, 2005

January	7	Friday	International New Student Orientation
	9	Sunday	SAT
	9-10	Sun-Mon	Registration
	10	Monday	ESL Begins
	11	Tuesday	Instruction Begins, Late Registration Begins
	12	Wednesday	Late International New Student Orientation
	17	Monday	Last Day to Register or Add a Class
	21	Friday	Last Day to Drop a Class without receiving a "W"
March	2	Wednesday	Mid-Semester
	10	Thursday	Spring Break begins at 5:00 pm
	21	Monday	Instruction Resumes
	21	Monday	Summer Registration Begins
	25	Friday	Last Day to Withdraw from a Class
	28	Monday	Fall 2005 Pre-registration Begins
April	6	Wednesday	Awards Convocation
	10	Sunday	Major Field Achievement Test
	29-May 4	Fri-Wed	Examinations
May	6	Friday	Senior Consecration
	7	Saturday	Baccalaureate
	8	Sunday	Commencement
	20	Thursday	ESL Graduation

## SUMMER MODULES 2005

### FIRST MODULE

May 9-June 3	4 Weeks	Final Exam June 3
May 9-June 10	5 Weeks	Final Exam June 10

### SECOND MODULE

June 13-July 15	5 Weeks	Final Exam July 15
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### THIRD MODULE

July 18-August 19	5 Weeks	Final Exam August 19
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### NURSING

June 13-July 15	5 Weeks	Pathophysiology
May 11-June 17	6 Weeks	Child Health Nursing

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# **SOUTHWESTERN ADVENTIST UNIVERSITY**

**THE BULLETIN  
2004-2005**

**Volume 111**

**Keene, Texas 76059  
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# Mission, Purpose, and Goals

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<b>Mission Statement</b>	The mission of Southwestern Adventist University is to offer quality higher education in a Christ-centered environment.
<b>Core Values</b>	<ol style="list-style-type: none"><li>1. God is the ultimate source of knowledge and meaning</li><li>2. Committed to the Seventh-day Adventist value system</li><li>3. Commitment to the continual growth of the whole person</li><li>4. Committed to a heritage of diversity, tolerance, concern and compassion for others</li><li>5. Commitment to the personalized development of students</li><li>6. Academic excellence</li></ol>
<b>Brief History</b>	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).
<b>Pertinent Descriptive Information</b>	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.
<b>Essential Beliefs</b>	The institution is committed to Christian teachings and values as understood by the Seventh-day Adventist Church. God is perceived as the Creator and ultimate source of knowledge and meaning. True education is defined as the harmonious development of the intellectual, spiritual, social, and physical aspects of human nature.
<b>Geographical Region, Type of Students and Faculty</b>	<p>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.</p> <p>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.</p>
<b>Major Institutional Functions</b>	<p>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.</p> <p>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.</p>
<b>Attitudes and Ideals</b>	The University broadens the student's intellect, strengthens the spiritual dimension, contributes to social growth, fosters attitudes and practices of healthful living, develops a wholesome respect for the dignity of labor, and instills a sense of selfless service.

# Purpose and Goals

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## **Institutional Goals**

The University has the following goals:

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

## **Student Outcomes**

The SWAU graduate will:

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

## **Accreditation and Non-Discrimination Policy**

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

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

- Council on Social Work Education
- General Conference Accrediting Association of SDA Schools, Colleges, and Universities
- International Assembly for Collegiate Business Education
- Texas Education Agency
- Texas Board of Nurse Examiners
- National League for Nursing

The University is a member of the following:

- National Association of Independent Colleges and Universities
- Independent Colleges and Universities of Texas
- Texas Independent College Fund
- Association of Texas Colleges and Universities

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

# Admissions

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## Visiting SWAU

We at Southwestern Adventist University are happy to have prospective students and parents visit the campus. It is best to visit during the week as offices are open Monday to Friday noon. Because weekend visitation is best for some, there are two special weekend programs annually. These are in March and June. Call for details at (800) 433-2240 or see our web site at <http://admissions.swau.edu>.

## General Admission

Southwestern Adventist University admits qualified applicants without regard to race, color, gender, handicap, or national origin. While the Seventh-day Adventist church sponsors and financially underwrites the University and while the majority of its students are Seventh-day Adventists, the University requires no specific religious affiliation for admission. The University will admit persons of other or no religious persuasion who meet its academic standards and who express their willingness to respect its religious, social, and cultural characteristics.

The Director of Admissions, in consultation with the Admissions Committee, reviews all applications and makes the decisions regarding admission to the University. Those who desire information regarding admission may e-mail, write, or phone:

[inquire@swau.edu](mailto:inquire@swau.edu)

SWAU Admissions  
P O Box 567  
Keene, TX 76059  
U.S.A.

(817) 645-3921 (local and international callers)  
(800) 433-2240 toll-free within the United States

The Admissions Office will answer questions and help students find advisors in their chosen fields. Students wishing to enter the Nursing program or the Adult Degree Program must meet additional admission requirements (see page 89 for Nursing and page 8 for the Adult Degree Program). Students wishing to graduate with an Elementary Education or Social Work major must also meet additional requirements (see page 58 for Education and page 110 for Social Work). Counsel with an advisor regarding these requirements and check those sections in this bulletin. The following are the regular admission procedures.

## New Freshman Admission

SWAU classifies new freshmen as students having 0 to 11 semester hours of college credit. SWAU requires that students have graduated from high school or have an equivalency diploma. Students must have acceptable ACT or SAT composite scores.

The following are admission procedures for new freshman:

1. Complete and return an application to the Admissions Office.
2. Submit an official high school transcript, showing graduation date, to SWAU's Admissions Office. If the applicant has enrolled at any college, an official transcript of that academic record must also be submitted. Any applicant who has not graduated from high school must submit an official GED or state equivalency diploma, and an official transcript from the last high school attended if the applicant attended a high school. Home schooled applicants must submit an official GED or state recognized high school equivalency certificate.

3. Submit an official score report of an ACT or SAT exam. New freshmen must have a minimum SAT composite of 800 or a minimum ACT composite of 17 to enroll in regular classes. New freshmen who have an SAT composite between 600 and 790, or an ACT composite between 13 and 16, will be enrolled in the Jump Start Program. Applicants who graduate from high school with a cumulative GPA of 3.0 or higher and have a composite ACT of 16 or composite SAT of 760 to 790 are exempt from the Jump Start Program. Applicants whose highest composite scores are below 600 on the SAT or below 13 on the ACT exam will not be accepted. Southwestern's Counseling and Testing Center offers the SAT for applicants who have not taken the exam or who wish to take the SAT again. SAT results from an on-campus exam cannot be transferred to other institutions. Applicants who have passed a college level English composition course and a college level math course are exempt from having to submit SAT or ACT scores.
4. Submit a letter of explanation and commitment if involved in any incident of suspension, probation, dismissal, criminal conduct, or substance use as indicated on the application. The Admissions Committee will review the letter and determine the applicant's eligibility for admission.

The Admissions Office will notify applicants by letter regarding acceptance status after application and transcripts have been received. An applicant will be accepted in good standing as a regular student in a degree program when all requirements have been met. Acceptance allows the financial aid and pre-registration process to begin. A conditional acceptance is given if acceptable ACT or SAT scores are submitted but other required documents have not been submitted. Enrollment is limited to a maximum of three semesters when a new freshman student has a conditional acceptance.

## Transfer Student Admission

A transfer student is one with 12 or more transferrable semester hours. Transfer students may be admitted in any semester. The following are admission procedures for transfer students:

1. Complete and return an application to the Admissions Office. To receive Federal financial aid transfer students must indicate on the application when they graduated from high school or passed a GED or state high school equivalency test.
2. Submit an official undergraduate transcript from each college or university the student has attended. All official college transcripts must be submitted in the same semester that the student begins classes so that a degree audit may be completed before registration the next semester. Transfer students who were home schooled at the high school level and have not completed a college program of at least two years in length must have passed a state recognized high school equivalency test or GED to receive Federal financial aid.
3. Submit SAT or ACT scores if the applicant has not passed both an English composition course and a college math course and has less than 24 transferrable semester hours. TAAS or TASP scores can be submitted in lieu of SAT or ACT scores. Minimum acceptable scores: SAT 800 composite; ACT 17 composite; TASP 220 Writing, 230 Math, and 230 Reading; TAAS 1770 Writing with a Texas Learning Index of 86 Math and 89 Reading. Southwestern's Counseling and Testing Center offers the SAT throughout the year for students who



# Admissions

need to take the test. SAT results from an on-campus exam cannot be transferred to other institutions.

4. Submit a letter of explanation and commitment if involved in any incident of suspension, probation, dismissal, criminal conduct, or substance use as indicated on the application. The Admissions Committee will review the letter and determine the applicant's eligibility for admission.

Applicants receive notification of acceptance status from the Admissions Office. A transfer student will be accepted in good standing as a regular student in a degree program when all requirements are met. A transfer student with a cumulative GPA of less than 2.0 from previous college work will be accepted on academic probation (refer to Academic Probation on page 25). A conditional acceptance may be given if all official transcripts have not been submitted. Enrollment will be limited to one semester when a transfer student has a conditional acceptance.

## International Student Admission

SWAU classifies as an international student all applicants not a citizen or permanent resident of the United States. SWAU is approved by the U.S. Immigration and Naturalization Service for the admission of non-immigrant students (F1 status). International students should not leave their country with the intention of enrolling at Southwestern Adventist University without a letter of acceptance and an I-20 form issued by SWAU. International applicants must meet the following requirements to obtain an acceptance letter and an I-20 form:

1. Submit an application to the Admissions Office.
2. Submit official academic transcripts as required by new freshmen, transfer, or graduate admission procedures as appropriate. Students from countries which administer the G.C.E. (General Certificate of Education) examinations must have earned five (5) or more "O" level academic subject passes (with marks 1 through 6 or A through D). Degree-seeking students with previous college work must submit an official English translation before SWAU can give transfer credit.
3. Submit a SWAU Personal Data form.
4. Submit proof of English language proficiency. Any of the following will meet this requirement:
  - a) the Test of English as a Foreign Language (TOEFL) with a minimum proficiency level of 190 on the computer-based test, or 520 on the paper-based test
  - b) the Michigan English Language Assessment Battery with an average score of 80 in each section\*
  - c) an SAT I Verbal score of 400 or higher\*\*
  - d) an ACT English score of 17 or higher
  - e) transfer of at least 24 semester credit hours to SWAU with the last three years of education at a school or schools where English is the language of instruction
  - f) transcribed university level credit for an English composition course if English is the national language of a student's country of citizenship, is the student's first language, and the last three years of education have been completed in English.

\*SWAU's English as a Second Language Department gives the Michigan test free of charge.

\*\*SWAU's Counseling and Testing Center gives the SAT for a fee.

All acceptable proof must be current (within the last six months). Students who do not have or who do not submit proof of English language proficiency will be tested upon arrival at SWAU. Students who do not meet these minimum requirements will be required to take ESL courses, Jump Start courses, or a combination of these classes in the first semester of enrollment at Southwestern.

5. Submit a SWAU Certificate of Finance form and documentation to prove financial ability to meet the costs of tuition, lodging, food, medical insurance, and personal expenses while studying at SWAU.
6. Submit a deposit of \$750 and a pre-payment of \$3,900 (a combined total of \$4,650) if the applicant is not a citizen of U.S. Territories or Canada. The \$3,900 pre-payment will be applied to the student's first semester's expenses at SWAU and the \$750 deposit will be retained as a reserve fund. The reserve fund will become available to the student upon graduation or permanent withdrawal from school, if the student's account balance is zero. No interest is paid on the deposit held in reserve. Deposits and pre-payments will be returned to applicants who do not enroll, minus a processing fee of \$100.
7. Submit a legible copy of a current passport, showing legal name.
8. Submit a letter of explanation and commitment if involved in any incident of suspension, probation, dismissal, criminal conduct, or substance use as indicated on the application. The Admissions Committee will review the letter and determine the applicant's eligibility for admission.

Southwestern Adventist University does not issue I-20's for international applicants to the Adult Degree Program. International students applying to the Adult Degree Program must meet ADP admission requirements.

## Application Deadlines

Because of the extra time required to process international applicants, SWAU will give priority to those who meet all financial and academic requirements for admission at least four months prior to registration. **Final deadlines to submit required documents are July 1 for Fall semester and November 1 for Spring semester.**

## Acceptance Notification

The Admissions Office will notify applicants by letter regarding acceptance status after an application and transcripts have been received. SWAU will issue an I-20 after an academic acceptance is granted and a Certificate of Finance with acceptable documentation, a Personal Data form, a deposit and the pre-payment have been received.

## On-Campus Housing

After being accepted, international students who plan to live in one of SWAU's dormitories should immediately submit a housing information form with a room reservation/damage deposit of \$100.



# Admissions

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## Orientation Program

An *International Student Orientation* is conducted the Friday before each semester's registration. Attendance at this orientation program is required for all non-ESL non-immigrants who are new to SWAU, including international transfer students. Information specific to the needs of international students is covered in this program. Students are notified of this orientation program in acceptance letters. Attendance at any other SWAU orientation does not substitute for attendance at the *International Student Orientation*. New international students who do not attend this orientation program will not be allowed to register until they attend a makeup orientation program conducted during late registration.

## Immigration and Naturalization Service (INS) Reporting

When international students arrive at SWAU they should take their visa and I-94 card to the Admissions Office so copies can be made to go into their admissions file. If an international student enters the U.S. with an I-20 from SWAU but does not enroll at SWAU or if an international student drops out, SWAU will notify the U.S. government through the Student & Exchange Visitor Information System (SEVIS) as required by U.S. law. It is imperative all international students on an I-20 notify in advance the International Student Advisor if they plan to transfer to another school in the U.S. or if they plan to drop below the 12 minimum required hours of classes.

## Financial Aid

International students on F1 visas do not qualify for loans and grants as detailed in the financial section of the SWAU Bulletin though campus employment is available. The student is expected to have sufficient funding (either sponsorship or personal funds) to cover tuition, food, lodging, books, fees, insurance, and personal expenses. International students are expected to meet required payments at registration and throughout the semester just as other students do.

## On-Campus Work

According to current U.S. immigration laws, international students with student visas may work on-campus provided the student is enrolled in a full course of study and is making progress toward the completion of a degree. On-campus employment is limited to a maximum of 20 hours per week when school is in session but may go up to 40 hours per week during school vacations. International students in F-1 status are required by law to secure permission before accepting any off-campus employment.

## Medical and Automobile Insurance

Because the cost of medical care in the United States is high, the U.S. government requires all international students to have major medical insurance coverage. SWAU has a major medical insurance plan available for international students. At the time of registration students must purchase the medical insurance available through the University or provide a copy of the schedule of benefits (in English) of their own medical insurance policy, which meets or exceeds the minimum requirements for international students as specified by the U.S. government.

Automobile insurance is required in the United States to cover liability for damages in the event of an accident. Severe penalties are imposed on the owner and driver of an uninsured vehicle should an accident occur. The international student advisor at SWAU can provide information about purchasing automobile insurance.

## SPECIAL ADMISSIONS

### Auditing Students

Students who plan only to audit classes must submit an application. They will be admitted as an auditing student.

### Adult Degree Program

The Adult Degree Program (ADP) meets the needs of those who cannot attend classes on campus on a regular basis. Students who are at least 22 years old, have been out of college for more than one year, and find it difficult to attend classes full-time because of family responsibilities or other obligations are eligible for this program. Requests for exceptions should be directed to the ADP Committee. For an application or to talk with the department, please call (800) 433-2240, ext. 204.

For admission to the Adult Degree Program, students must:

1. Complete the ADP application form and data sheet contained in the ADP brochure.
2. Submit an official report/transcript of one of the following:
  - a. an SAT composite score of 800 or higher.
  - b. an ACT composite score of 17 or higher.
  - c. college transcript with passing grades in English and math classes.
  - d. college transcript with grades of C or better in developmental English and math classes.
  - e. official transcript(s) with 24 or more semester hours with a cumulative GPA of 2.0 or better.
  - f. TAAS score of 220 Writing, 230 Math, and 230 Reading.
  - g. TASP score of 1770 Writing with a Texas Learning Index of 86 Math and 89 Reading.
3. Submit official transcripts according to applicable criteria:
  - a. Applicants with less than 12 hours of college credit
    1. an official high school transcript showing graduation or an official certificate from a state recognized high school equivalency test.
    2. official transcripts from each college attended.
  - b. Applicants with 12 or more credit hours must submit official transcripts of all undergraduate college work from each college attended.

Developmental/remedial classes cannot be taken through the Adult Degree Program.

A student transferring experiential credit through a portfolio must submit the portfolio for review by SWAU faculty. If SWAU faculty agree that documentation is sufficient for credit, up to 32 credits may transfer in this manner. Courses and the number of credits must be identified on the transcript. Credit will be awarded only in the areas offered within the current curriculum of the institution. No letter grade is given or transferred for experiential credit.

# Admissions

## English as a Second Language (ESL)

ESL courses are intensive English classes designed for students with limited English language proficiency. To be accepted for ESL classes, applicants must:

1. Have graduated from high school and be at least 16 years old.
2. Submit an undergraduate application to the Admissions Office.
3. Submit official academic transcripts as required by new freshmen, transfer, or graduate admission procedures as appropriate. Degree-seeking students with previous college work must submit an official English translation before SWAU can give transfer credit.
4. Submit a SWAU Personal Data form.
5. Submit a letter of explanation and commitment if involved in any incident of suspension, probation, dismissal, criminal conduct, or substance use as indicated on the application. The Admissions Committee will review the letter and determine the applicant's eligibility for admission.
6. Submit a Certificate of Finance form and documentation to prove financial ability to meet the costs of tuition, lodging, food, medical insurance, and personal expenses while studying at SWAU if not a citizen of the United States or U.S. Territories.
7. Submit a deposit of \$750 and a pre-payment of \$3,900 (for a combined total of \$4,650) if the applicant is not a citizen of the United States, U.S. Territories, or Canada. The \$3,900 pre-payment will be applied to the student's first semester's expenses at SWAU and the \$750 deposit will be retained as a reserve fund. The reserve fund will become available to the student upon graduation or permanent withdrawal from school, if the student's account balance is zero. No interest is paid on the deposit held in reserve. Deposits and prepayments will be returned to applicants who do not enroll, minus a processing fee of \$100.

The Admissions Office will notify applicants by letter regarding acceptance status after application and transcripts have been received. SWAU will issue an I-20 after an academic acceptance is granted and a Certificate of Finance with acceptable documentation, a Personal Data form, a deposit and the pre-payment have been received.

Students who successfully complete 12 hours of ESL, passing each class with a grade of C or better, and who pass the Michigan Test of English, are not required to submit ACT or SAT scores to continue in another academic area.

**Because of the extra time required to process international applicants, SWAU will give priority to those who meet all financial and academic requirements for admission at least four months prior to registration. Final deadlines for international applicants to submit required documents are July 1 for Fall semester and November 1 for Spring semester.**

## High School Students

High school students currently enrolled in their junior or senior year may take classes at SWAU. They must submit an application and provide a letter from their principal giving permission to take these classes.

## Returning Students

Former SWAU students wishing to return to SWAU must reapply for admission. Students must reapply if they have not been in attendance for one or more semesters.

## Teacher Certification Students

All teacher certification students must submit a graduate non-degree application and an official transcript showing graduation from either an undergraduate or graduate institution before registering. Other transcripts may be submitted at the discretion of the student for credits they would like to have applied to the SWAU transcript. Students who have not earned an undergraduate degree must meet general admission requirements.

## Transient Students

SWAU will accept a transient student, a student registering for not more than one semester, with either written recommendation from the student's college registrar or an official transcript of college work already completed. A transient student planning to take a course with a prerequisite must provide evidence that he/she has the necessary background to take that course. Transient students are not eligible for Federal or state financial aid.

## TRANSCRIPT POLICIES

1. An applicant accepted on a conditional basis may be admitted pending the receipt of all official transcripts. Students lacking an official high school transcript, GED, or state high school equivalency diploma can remain conditionally accepted for a maximum of three (3) semesters. Students lacking official college or university transcripts can remain conditionally accepted for one (1) semester only. Official college transcripts must be submitted in the same semester that the student begins classes so that a degree audit may be completed before registration the next semester.
2. A student's conditional acceptance remains in effect until all official transcripts are received by SWAU or until the conditional time period is concluded.
3. Acceptance will be withdrawn at the end of the conditional time period if SWAU has not received all missing transcripts.
4. An unconditional acceptance will be granted when all admission requirements are met (official transcripts are received).
5. While a student is attending with a conditional acceptance, SWAU will not issue a SWAU transcript, nor any grade reports, even if the student's account is paid in full. SWAU will not issue a transcript for any student (current or past) who is missing official transcripts.
6. Dismissal will follow if SWAU finds that a student has registered without having graduated from high school or without having passed the GED exam or a state high school equivalency test.

# Biology

Arthur V. Chadwick, Chair; Richard L. McCluskey, Dan Petr, Hoyet Taylor

## 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.

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 44 semester hours in biology and emphasizes course work in biology and the sciences. Required cognate courses are specified for each degree. The program has flexibility to allow students the choice of elective biology courses of special interest beyond the basic requirements listed below.

## PROGRAMS

### Biology, B.A.

BIOL 111, 112	General Biology .....	8
BIOL 230	General Ecology .....	4
BIOL 320	Genetics .....	4
BIOL 419	Philosophy of Science .....	3
BIOL 470	Field Natural History .....	4
BIOL 380	Research Methods .....	2
BIOL 340	Cell & Molecular Biology or	
BIOL	Elective from Group II or III .....	3-4
BIOL	Elective from Group I .....	4
BIOL 480**	Research in Biology .....	2-3
BIOL 481	Senior Thesis .....	1
	TOTAL	36

Required Cognates: CHEM 111, 112; MATH 121.

Recommended Cognates: CHEM 331, 332.

### Biology, B.S.

BIOL 111, 112	General Biology* .....	8
BIOL 230	General Ecology .....	4
BIOL 320	Genetics .....	4
BIOL 340	Cell & Molecular Biology .....	4
BIOL 380	Research Methods .....	2
BIOL 419	Philosophy of Science .....	3
BIOL 470	Field Natural History .....	4
BIOL	Elective from Group I .....	4
BIOL	Elective from Group II .....	3-4
BIOL	Elective from Group III .....	4
BIOL 480*	Research in Biology .....	2-3
BIOL 481	Senior Thesis .....	1
	TOTAL	44

Required Cognates: CHEM 111\*, 112\*, 331\*, 332\*; PHYS 121\*, 122\*; MATH 121\*.

\* The standard courses required for MCAT (Medical College Admission Test) & DAT (Dental Admission Test) preparation and for medical, dental and veterinary medical school entrance requirements.

\*\* May be substituted by up to 2 hours of mentored internship.

### Group I Biology of Plants

BIOL 314	Systematic Botany
BIOL 360	Plant Dynamics

### Group II Biology of a Taxon

BIOL 310	Invertebrate Zoology
BIOL 312	Field Ornithology
BIOL 430	Entomology
BIOL 440	Mammalogy
GEOL 112	Paleobiology

### Group III Organismic Biology

BIOL 220	Microbiology
BIOL 350	Developmental Biology
BIOL 420	Animal Behavior
BIOL 443	Comparative Anatomy
BIOL 450	Histology
BIOL 460	Animal Physiology
GEOL 210	Field Methods in Vertebrate Paleontology

### Biology Minor

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

## PRE-PROFESSIONAL REQUIREMENTS

The entrance requirements for most medical, dental and veterinary medical schools are satisfied by the Biology B.S. degree and its cognate requirements of Chemistry, Physics and Math. Medical schools may require additional math and schools of veterinary medicine often have unique entrance requirements. The pre-professional student must choose a major from the list on page 34 and should consult with his/her pre-professional advisor to develop the best degree plan to satisfy specific pre-professional requirements.

## TEACHING CERTIFICATION PROGRAM

The following Life Science major and minor are for teaching certification only. Requirements for certification are listed in the Education section of this bulletin.

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

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

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

### Life Science Minor - Secondary Teaching Area

#### Option II

BIOL 111, 112	General Biology .....	8
BIOL 230	General Ecology .....	4
BIOL 320	Genetics .....	4
BIOL 419	Philosophy of Science .....	3
BIOL	Electives u.d. ....	5
	TOTAL	24

## BIOLOGY COURSES

### **BIOL 101, 102 Anatomy & Physiology 4, 4 hours**

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

### **BIOL 104, 105 Human Biology 4, 4 hours**

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

### **BIOL 111, 112 General Biology 4, 4 hours**

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

### **BIOL 220 Microbiology 4 hours**

Prerequisite: BIOL 111, 112 or BIOL 101, 102

Introduction to the structure, function and control of microorganisms in the environment with special emphasis on those organisms of medical importance. Introduction to immune responses and mechanisms including antibody and host-antigen interactions, bursal and thymic influences on the lymphoid system, and humoral and cellular immunological response mechanisms. 3 Lec 3 Lab. Lab fee. (Fall)

### **BIOL 230 General Ecology 4 hours**

Prerequisite: BIOL 111, 112

A general course including study of plant and animal distribution, ecological interrelationships, and observations of the delicate balance in nature. The laboratory includes a four-day field trip. 3 Lec 3 Lab. Field trip fee. (Fall)

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

Prerequisite: BIOL 111, 112, and approval of instructor

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

### **BIOL 310 Invertebrate Zoology 4 hours**

Prerequisite: BIOL 111, 112

A taxonomic and ecological study of invertebrates from marine, freshwater, and terrestrial environments. Considerable attention is focused on the direct role of invertebrates on human life. Laboratory includes a four-day field trip. 3 Lec 3 Lab. Field trip fee. (Offered periodically)

### **BIOL 312 Field Ornithology 3 hours**

Prerequisite: BIOL 111, 112 or permission of instructor

A field study of native American birds, with emphasis on avian identification, geographical distribution, migration, habits and conservation. Laboratory includes a four-day field trip. 2 Lec 3 Lab. Field trip fee. (Spring)

### **BIOL 314 Systematic Botany 4 hours**

Prerequisite: BIOL 111, 112

A taxonomic study of the flowering plants of Texas. Includes methods for identification and preservation of plant specimens. Laboratory includes a four-day field trip. 3 Lec 3 Lab. Field trip fee. (Spring, odd years)

### **BIOL 320 Genetics 4 hours**

Prerequisite: BIOL 111, 112

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

### **BIOL 340 Cellular and Molecular Biology 4 hours**

Prerequisite: BIOL 111, 112; CHEM 112

A study of the internal workings of the cell. The molecular basis of various cell activities is emphasized. Particular attention is paid to energetics, replication and synthesis, molecular transport, and excitability of cells. Methods of molecular biology, including biomolecular engineering will be studied in the laboratory. 3 Lec 3 Lab. (Fall)

### **BIOL 350 Developmental Biology 4 hours**

Prerequisite: BIOL 111, 112

A study of vertebrate embryonic development from the formation of germ cells to the development of major organs and parturition. Reference is made to human developmental anatomy throughout the course. Laboratory includes microscopic study and experiments with sea urchin, frog, and chick embryos. 3 Lec 3 Lab. (Spring, even years)

### **BIOL 360 Plant Dynamics 4 hours**

Prerequisite: BIOL 111, 112 or permission of instructor

A broad course emphasizing the biological importance of plants in the world ecosystem as well as their direct vital role in human life. This is an applied botany course in which plant physiology, plant structure, ecology, and systematics are studied. Methods in experimental horticulture are examined. Laboratory includes a four-day field trip. 3 Lec 3 Lab. Field trip fee. (Spring, even years)

### **BIOL 380 Research Methods 2 hours**

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

A general introduction to the techniques and methodologies of scientific literature and presentations based upon library and on-line research. Each student will select a specific topic for research, prepare a paper, and make an oral presentation based on that work. The student will learn scientific methodology, basic statistical skills, and critical data analysis. (Fall)

### **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 419.) **This course meets the upper division writing component for senior year English.** (Spring)



# Biology

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## **BIOL 430 Entomology 4 hours**

A study of the basic morphology, physiology, ethology and classification of insects and related arthropods. The topics include a discussion of development and insect metamorphosis, insect ecology, a treatment of applied entomology, and introduction to insects of medical and veterinary significance. Laboratory includes collecting techniques, preparatory techniques of museum specimens, and insect microscopy. 3 Lec 3 Lab. (Spring, odd years)

## **BIOL 440 Mammalogy 4 hours**

Prerequisite: BIOL 111, 112

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

## **BIOL 450 Histology 4 hours**

Prerequisite: BIOL 111, 112

An investigation of the structure and function of the tissues of the human body. The course is lab intensive and is intended to acquaint the student with the microscopic characteristics of tissues. 2 Lec 6 Lab. (Spring, even years)

## **BIOL 460 Animal Physiology 4 hours**

Prerequisite: BIOL 111, 112; CHEM 111, 112

Emphasis will be placed on mammalian organ systems, but comparative aspects of each system and the interaction of environment and physiology will be discussed. 3 Lec 3 Lab. (Fall, even years)

## **BIOL 470 Field Natural History 4 hours**

Prerequisite: BIOL 111, 112

An intensive advanced level course for students majoring in biology providing the opportunity for first-hand study of life forms in their natural setting. Includes field work in a region of high biological interest. Subjects covered may include ornithology, mammalogy, entomology, systematic botany, herpetology, paleontology, ecology, and marine biology. A student may also take up to two units of BIOL 491 with emphasis on a chosen taxon.

Student may apply to repeat for credit one time with approved research proposal. (Summer) Travel fee.

## **BIOL 480 Research in Biology 1-3 hours**

Prerequisite: BIOL 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 BIOL 380. May be repeated for a total of 5 credits. (Offered periodically)

## **BIOL 481 Senior Thesis 1 hour**

Prerequisite: BIOL 480

This course is designed to permit the student to develop a publishable-quality research paper. Instruction consists of writing techniques and guidance in the completion of the project. Students will give several oral progress-reports, a final presentation at the Biology Research Symposium, and a completed Senior Thesis. **This course meets the upper division writing component for senior year English.** (Spring)

## **BIOL 491 Selected Topics 1-3 hours**

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

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

# Business Administration

Allen Stenbridge, Chair; Jerry L. Chi, Kirsten B. Harrington, Robert L. McChesney, Judith F. Miles  
Adjunct: Fred Harder, Radhames Lizardo, L. Jerome McGill, Art White

## MISSION

The department offers contemporary business/management education to inspire and to prepare students for excellence and service in their Christian experience and professional careers. This mission is pursued by offering undergraduate and graduate programs using current technology within the business environment.

## AIMS OF THE UNDERGRADUATE PROGRAM

1. Maintain a curriculum that provides students with the necessary knowledge for successful work experiences in today's business environment and preparation for graduate studies.
2. Provide students with meaningful, practical experience to help them develop managerial and entrepreneurial skills.
3. Assist students in understanding the value of attitudes, integrity, responsibility, and related characteristics in pursuing a successful professional and meaningful spiritual experience.
4. Enrich the learning-teaching experience by fostering access to and utilization of appropriate learning resources.

## GRADUATE PROGRAM, MBA

See *Graduate Bulletin*.

## PROGRAMS OFFERED

### Bachelor of Business Administration (BBA)

With concentration in: Accounting  
Business Administration  
International Business  
Management  
Marketing

### Bachelor of Science (BS)

With major in: Business (Secondary Certification)  
Management  
With double major in: Business Administration and  
Computer Information Systems

The above BBA and BS degrees are composite majors and do not require a minor.

### Associate of Science (AS)

With major in: Office Technology

## Minors

Accounting  
Business Administration  
Office Systems Administration

## DEGREE REQUIREMENTS

### Business Core Courses

Required of all BBA and BS in Management students.

ACCT	211, 212	Accounting Principles I, II .....	8
BUAD	211	Profiles of Entrepreneurship .....	3
BUAD	301	Principles of Management .....	3
BUAD	302	Advanced Software Applications .....	3
BUAD	311, 312	Business Law I, II .....	6
BUAD	321	Business Finance .....	3
BUAD	350	Ethics and Business Social Responsibility .....	3
BUAD	496	Senior Business Seminar .....	1
ECON	211	Macroeconomics .....	3
ECON	212	Microeconomics .....	3
MKTG	343	Principles of Marketing .....	3
		TOTAL Business Core	39

### BBA Cognate Requirements

MATH	236*	Applied Mathematics for Business .....	3
MATH	241*	Intro. to Probability and Statistics .....	3
		TOTAL	6

\*MATH 110 is a prerequisite for these classes.

### BBA/BS Cognate Requirements

COMM	115	Discussion Techniques .....	3
CSIS	102	Microcomputer Literacy .....	3
OFIS	100	Micro Keyboarding * .....	1
		TOTAL	7

\*Students who took keyboarding in high school or who can otherwise present documentation attesting that they possess required skills will be exempted.

### Area of Concentration or Major

See following pages.

# Business Administration

## REQUIREMENT 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. To accommodate the different requirements of these and other possible accounting careers, the accounting curriculum has two separate tracks.

#### Four-Year Track

The four-year track is designed for students who do not intend to take the national Certified Public Accounting (CPA) examination for CPA certification. Students graduating with this degree would have the ability to pursue different accounting careers, except public accounting. National certifications include Certified Managerial Accountant (CMA), Certified Internal Auditor (CIA), and Certified Fraud Examiner (CFA). Program requirements include the following:

ACCT	315, 316	Intermediate Accounting .....	8
ACCT		Electives* .....	15
		TOTAL	23

\*Electives to be selected from the following courses:

ACCT	317	Cost Accounting .....	3
ACCT	318	Federal Income Taxes .....	4
ACCT	319	Fund Accounting .....	3
ACCT	412	Auditing .....	4
ACCT	415	Advanced Accounting .....	3
ACCT	417	Accounting Information Systems .....	3
ACCT	492	Accounting Internship .....	3

#### Five-Year Track

The five-year track is designed for students who intend to take the national Certified Public Accounting (CPA) examination for CPA certification. The five-year track will flow seamlessly into the MBA program; therefore, at the end of the fifth year, the student will graduate with both a BBA with a concentration in accounting and the MBA. **(For additional information, see Graduate Bulletin.)** Program requirements include the following:

ACCT	315, 316	Intermediate Accounting .....	8
ACCT	317	Cost Accounting .....	3
ACCT	318	Federal Income Taxes .....	4
ACCT	319	Fund Accounting .....	3
ACCT	412	Auditing .....	4
ACCT	415	Advanced Accounting .....	3
ACCT	417	Accounting Information Systems .....	3
		TOTAL	28

### BUSINESS ADMINISTRATION, B.B.A.

The business administration degree assists the individual needing a college degree for continual personal growth and professional promotions. Basic business skills are mastered and additional courses are selected to assist with career growth, development, and advancement.

#### Business Administration Concentration:

ACCT, BUAD, or MKTG electives.....	12
ACCT, BUAD, or MKTG upper division electives .....	9
BUAD 472 Business Policies and Strategy .....	3
TOTAL	24

### 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.

#### International Business Concentration:

BUAD	451	International Business .....	3
BUAD	452	International Finance .....	3
BUAD	453	Cross-Cultural Studies and Communication .....	3
BUAD	472	Business Policies & Strategies .....	3
BUAD	492	Business Internship or Intermediate-Level Language .....	6
GEOG	311	Regional Geography .....	3
		Elective .....	3
		TOTAL	24

Elective to be selected from the following courses:

BUAD	372	Human Resource Management.....	3
BUAD	381	Small Business Management.....	3
BUAD	423	Organizational Behavior .....	3



# Business Administration

## 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.

### Management Concentration:

BUAD	317	Business Communications .....	3
BUAD	372	Human Resource Management .....	3
BUAD	423	Organizational Behavior .....	3
BUAD	466	Production and Operations Management .....	3
BUAD	472	Business Policies & Strategies .....	3
		Electives* .....	9
		TOTAL	24

\*Electives to be selected from the following courses:

ACCT	317	Cost Accounting .....	3
ACCT	318	Federal Income Taxes .....	4
ACCT	417	Accounting Information Systems .....	3
BUAD	381	Small Business Management .....	3
BUAD	450	Project Management .....	3
BUAD	451	International Business .....	3
BUAD	452	International Finance .....	3
BUAD	453	Cross-Cultural Studies and Communication .....	3
BUAD	492	Business Internship .....	3
MKTG	303	E-Commerce and Web Site Design .....	3

## MARKETING, B.B.A.

The marketing concentration within the BBA prepares students for the marketing challenges of the new millennium. Computer technology is revolutionizing the traditional strategies used by organizations to market and sell their products and services. Students completing this academic option will be prepared for job opportunities in sales, retailing, advertising, and marketing with organizations integrating electronic technology to serve their customers.

### Marketing:

MKTG	303	E-Commerce & Web Site Design .....	3
MKTG	350	Consumer Behavior .....	3
MKTG	351	Advertising .....	3
MKTG	402	E-Commerce Environment .....	3
MKTG	443	Marketing Research .....	3
BUAD	450	Project Management .....	3
BUAD	472	Business Policies & Strategies .....	3
		Electives* .....	3
		TOTAL	24

\*Electives to be selected from the following courses:

BUAD	372	Human Resource Management .....	3
BUAD	451	International Business .....	3
BUAD	453	Cross-Cultural Studies and Communication .....	3
MKTG	241	Public Relations .....	3
MKTG	492	Marketing Internship .....	3

## MANAGEMENT, B.S.

This degree provides students some flexibility for enriching their managerial training. It prepares graduates for managerial careers in for-profit, not-for-profit, and governmental entities, as well as for entrepreneurial endeavors.

### Major Courses:

BUAD	317	Business Communications .....	3
BUAD	372	Human Resource Management .....	3
BUAD	423	Organizational Behavior .....	3
BUAD	472	Business Policies and Strategies .....	3
ACCT or BUAD		Elective .....	3
		TOTAL	15

### Cognate Courses:

MATH	241	Intro. to Prob. and Stats. ....	3
OFIS	100	Micro Keyboarding* .....	1

\*Students who took keyboarding in high school or who can otherwise present documentation attesting that they possess required skills will be exempted.

## TEACHING CERTIFICATION PROGRAM

The following business 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.

## Business, B.S. - Secondary Teaching Area

### Option III

The student must meet the requirement for B.S. degree in Business.

ACCT	211	Principles of Accounting I .....	4
ACCT	212	Principles of Accounting II .....	4
BUAD	201	Personal Finance .....	3
BUAD	301	Principles of Management .....	3
BUAD	302	Advanced Business Applications .....	3
BUAD	311	Business Law .....	3
BUAD	317	Business Communications .....	3
BUAD	496	Senior Business Seminar .....	1
CSIS	102	Microcomputer Literacy and Application .....	3
ECON	211	Macroeconomics .....	3
MATH	236	Applied Mathematics for Business .....	3
MKTG	303	E-Commerce and Web Site Design .....	3
MKTG	343	Marketing .....	3
OFIS	123	Document Production .....	4
OFIS	272	Administrative Records and Procedures .....	4
OFIS	385	Office Systems Technology .....	4
OFIS	388	Office Systems Training and Management .....	4
		TOTAL	55

# Business Administration

## DOUBLE MAJOR IN BUSINESS ADMINISTRATION AND COMPUTER INFORMATION SYSTEMS, B.S.

This program is open only to students seeking a double major in Business Administration and Computer Information Systems. Students who wish to pursue this program must make formal application both to the Department of Business Administration and the Department of Computer Science.

### Business Administration Courses:

ACCT	211, 212	Accounting Principles I, II	8
BUAD	211	Profiles of Entrepreneurship	3
BUAD	301	Principles of Management	3
BUAD	311, 312	Business Law I, II	6
BUAD	321	Business Finance	3
BUAD	350	Ethics and Business Social Responsibility	3
BUAD	496	Senior Business Seminar	1
ECON	211	Macroeconomics	3
MKTG	343	Principles of Marketing	3
MKTG	402	E-Commerce Environment	3
		<b>TOTAL</b>	<b>36</b>

### Computer Information Systems Courses:

CSIS	110, 111	Principles of Computer Programming I, II	6
CSIS	125	Discrete Structures I	3
CSIS	215	Object-Oriented Programming C++	3
CSIS	245	Introduction to LAN Technology	4
CSIS	303	E-Commerce and Web Site Design	3
CSIS	310	Assembler Programming and Machine Organization	3
CSIS	315	Application Development for Event-Driven GUI Applications	3
CSIS	320	Data Structures & Algorithms	3
CSIS	360	Operating Systems	3
CSIS	445	Internetwork Architectures	3
CSIS	450	Principles of Database Design	3
CSIS	490	Software Engineering	3
		<b>TOTAL</b>	<b>40</b>

### Required Cognates:

MATH	241	Statistics	3
MATH	236	Applied Mathematics for Business	3
COMM	115	Discussion Techniques	3
		<b>TOTAL</b>	<b>9</b>

**General Education and Elective Courses: 44**

**GRAND TOTAL 129**

## OFFICE TECHNOLOGY, A.S.

This degree provides the student with an in-depth background in the software aspect of computer and office systems and an understanding of how to apply this knowledge in the automated office environment.

### Core Courses:

BUAD302	Advanced Software Applications	3
BUAD317	Business Communication	3
BUAD496	Senior Business Seminar	1
CSIS 102	Microcomputer Literacy and App.	3
CSIS 303	E-Commerce and Web Site Design	3
OFIS 100	Micro Keyboarding	1
OFIS 385	Office Systems Technology	4
OFIS 123	Document Production	4
OFIS 272	Administrative Records and Procedures	4
OFIS 388	Office Systems Training and Management	4
OFIS	Electives	2
	<b>TOTAL</b>	<b>32</b>

### Recommended Electives:

ACCT 211	Accounting Principles	3
BUAD201	Personal Finance	3
BUAD211	Profiles of Entrepreneurship	3
OFIS 291	Selected Topics (Digital Imaging/Paint Shop/Front Page)	2

## COURSE REQUIREMENTS BY MINOR

### Minor: Accounting

ACCT	211, 212	Accounting Principles I, II	8
ACCT	315, 316	Intermediate Accounting I, II	8
ACCT		Electives (upper division)	4
		<b>TOTAL</b>	<b>20</b>

### Minor: Business Administration

ACCT	211, 212	Accounting Principles I, II	8
ECON	211	Macroeconomics	3
BUAD	301	Principles of Management	3
BUAD		Electives (upper division)	6
		<b>TOTAL</b>	<b>20</b>

### Minor: Office Systems Administration

BUAD	302	Advanced Software Applications	3
CSIS	102	Microcomputer Literacy and Application	3
MKTG	303	E-Commerce and Web Site Design	3
OFIS	100	Microkeyboarding	1
OFIS	272	Administrative Records and Procedures	4
OFIS	385	Office Systems Technology	4
OFIS		Electives	2
		<b>TOTAL</b>	<b>20</b>

# Business Administration

## ACCOUNTING COURSES

### **ACCT 211 Accounting Principles I** 4 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. 4 Lec 1 Lab (Fall)

### **ACCT 212 Accounting Principles II** 4 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. 4 Lec 1 Lab (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. (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 changing prices. (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 cost is emphasized. (Fall)

### **ACCT 318 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. (Spring)

### **ACCT 319 Fund Accounting** 3 hours

Prerequisite: ACCT 212

Special accounting procedures for units of government and other not-for-profit organizations. (Fall, even years)

### **ACCT 412 Auditing** 4 hours

Prerequisite: ACCT 212; MATH 241

A study of the theory and professional standards and their application to financial and compliance auditing and the auditor's attest function. (Fall)

### **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. (Spring)

### **ACCT 417 Accounting Information Systems** 3 hours

Prerequisite: ACCT 212

Conceptual foundation of accounting information systems in computerized and manual settings; contrast between file-based and data base approaches to data processing with emphasis on data base; system development and documentation techniques; system controls and security; information systems for business cycles. (Spring)

### **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 major. Note: A student may not exceed a total of 8 hours for ACCT 492, BUAD 492, and MKTG 492 combined.

# Business Administration

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## BUSINESS COURSES

### **BUAD 201 Personal Finance 3 hours**

A course in consumer finance that is concerned with the earnings of individuals and the many ways in which these funds are allocated in day-to-day living: earning, spending, and saving. Topics include financial planning, establishing credit, purchase of a house, and insurance. Taught on an as-needed basis. (Fall, even years)

### **BUAD 211 Profiles of Entrepreneurship 3 hours**

A business course offering a survey of major topics and issues in the contemporary business world and in business career planning. A team-teaching approach utilizing faculty and practicing professionals will be used to acquaint the students with both the theoretical concepts and the practical applications of these concepts in the real world. (Spring)

### **BUAD 250 Project Management and Leadership 3 hours**

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

### **BUAD 301 Principles of Management 3 hours**

Overview of work performed by management. Emphasis is placed on the functions of planning, organizing, directing, and controlling. (Spring)

### **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. (Fall, Spring)

### **BUAD 311 Business Law I 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. (Fall)

### **BUAD 312 Business Law II 3 hours**

A continuation of BUAD 311 given consideration to the provisions of the Uniform Commercial Code, laws relating to business organizations, and other selected legal topics pertaining to business operations. (Spring)

### **BUAD 317 Business Communications 3 hours**

Prerequisite: ENGL 121

This course is designed to survey the principles and forms of communication frequently found in business and the professions. Emphasis on oral and written communication theory and practice. (Spring)

### **BUAD 321 Business Finance 3 hours**

Prerequisite: ACCT 212; ECON 212

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, Spring)

### **BUAD 350 Ethics and Business Social Responsibility 3 hours**

Prerequisite: BUAD 301

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

### **BUAD 372 Human Resources Management 3 hours**

Prerequisite: BUAD 301

A course designed to provide a working knowledge of personnel functions, with emphasis on recruitment, selection, placement, and wage/salary administration. (Spring)

### **BUAD 381 Small Business Management 3 hours**

An in-depth analysis of entrepreneurship and the function of the entrepreneur in new venture creation. A framework is developed which incorporates marketing feasibility studies and financial analysis into a comprehensive business plan. The business venture is examined with respect to financial planning, marketing, management and tax decisions at the various stages of the business cycle. (Spring, odd years)

### **BUAD 423 Organizational Behavior 3 hours**

Prerequisite: BUAD 301

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

### **BUAD 441 Corporate Communication 3 hours**

A course designed to synthesize current knowledge and understanding of the role and function of corporate communication in the business environment. Emphasis is also given to the role of research in corporate communication. Attention is also given to leadership skills and the application of communication theory in business practice today. **This course meets the upper division writing component for senior year English.** (Fall, odd years)

### **BUAD 450 Project Management 3 hours**

Prerequisite: 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. (Fall)



# Business Administration

## **BUAD 451 International Business** 3 hours

Prerequisites: BUAD 301, MKTG 343

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

## **BUAD 452 International Finance** 3 hours

Prerequisites: BUAD 321; ECON 211, 212

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. (Fall)

## **BUAD 453 Cross-Cultural Studies and Communication** 3 hours

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

## **BUAD 466 Production and Operations Management** 3 hours

Prerequisite: BUAD 301; 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 & 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. (Spring)

## **BUAD 491 Selected Topics** 1-3 hours

Prerequisite: Permission of department chair

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

## **BUAD 492 Business Internship** 3-8 hours

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

## **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. **This course meets the upper division writing component for senior year English.** (Fall)

## **ECONOMICS COURSES**

### **ECON 211 Macroeconomics** 3 hours

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

### **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. (Fall, Spring)

## **MARKETING COURSES**

### **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, publics and target audiences, communication concepts and channels, campaigns, and the legal and ethical environment of public relations. (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. (Fall)

### **MKTG 343 Principles of Marketing** 3 hours

An introductory course dealing with basic marketing concepts. Emphasis is placed on managerial decisions in the areas of price, promotion, product design and distribution. (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)

### **MKTG 351 Advertising** 3 hours

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

# Business Administration

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## **MKTG 402 E-Commerce Environment**

**3 hours**

Prerequisite: CSIS 303

Social, legal, marketing and economic aspects of e-commerce. Internet technologies and methodologies needed for business usage in e-commerce, advertising and marketing. Topics include trust and security, intellectual property, and legal & ethical issues of e-commerce. (Spring)

## **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. (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. Note: A student may not exceed a total of 8 hours for MKTG 492, ACCT 492 and BUAD 492 combined.

## **OFFICE SYSTEMS ADMINISTRATION COURSES**

### **OFIS 100 Micro Keyboarding**

**1 hour**

A course designed to introduce students to the microcomputer keyboard and 10-key pad. Emphasis is on developing basic keyboarding skills, and formatting of basic documents. Not open to challenge examination. (Fall)

### **OFIS 123 Document Production**

**4 hours**

A lecture/laboratory class providing advanced skill development and mastery of word processing, computer 10-key pad, and machine transcription. Includes a review of punctuation, spelling, editing, and proofreading skills. Emphasis is placed on speed, accuracy, and formatting skills used in most softwares. 3 Lec 3 Lab (Spring, odd years)

### **OFIS 272 Administrative Records and Procedures**

**4 hours**

A study of records procedures and theories used in present systems of filing. Includes practice in alphabetic, geographic, numeric and subject filing systems. Additional emphasis placed on the study of administrative procedures with study in organizing, prioritizing, ethical decision-making and problem-solving in the office environment. Lab activities include projects directed toward the medical, legal, corporate and international offices. 3 Lec 3 Lab (Fall, even years)

### **OFIS 291 Selected Topics**

**1-3 hours**

Prerequisite: Permission 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.

### **OFIS 385 Office Systems Technology**

**4 hours**

Prerequisite: CSIS 102 or permission of instructor

A study of office systems — technology, people, and procedures within an organizational and environmental context. Technologies that support improved productivity through information creation, storage, retrieval, manipulation, and distribution are discussed. Emphasis is placed on the evaluation of office systems concepts through the utilization of problem-solving skills and critical thinking cases. (Fall, odd years)

### **OFIS 388 Office Systems Training and Management**

**4 hours**

A study of management and learning theories used to supervise and train employees in an office systems setting. Topics include supervisory styles; leadership techniques; instructional design; and implementation, evaluation, and management of a training program. Attention given to training professionals who work in environments with automated information systems. (Spring, even years)

# Chemistry

Karl Konrad, Chair; Mitchell Menzmer

## 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, biological 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. Physical Science -- Secondary Certification  
Minor in Chemistry

### Chemistry, B.A.

The chemistry B.A. major includes the following courses or their equivalents.

CHEM	111, 112	General Chemistry .....	8
CHEM	221	Modern Analytical Chemistry .....	4
CHEM	331, 332	Organic Chemistry .....	8
CHEM	341	Physical Chemistry .....	4
CHEM	451	Biochemistry .....	3
CHEM	462	Inorganic Chemistry .....	3
CHEM	491	Selected Topics .....	1
CHEM	471, 472	Seminar in Chemistry	
<i>or</i>			
BIOL	380	Research Methods .....	2
Electives		CHEM 342 or CHEM 454 .....	4
		TOTAL	37

Required Cognates: MATH 181; PHYS 121, 122.

Recommended Cognates: MATH 282, 283; CSIS 110.

### Chemistry, B.S.

The chemistry B.S. major includes the following courses or their equivalents.

CHEM	111, 112	General Chemistry .....	8
CHEM	221	Modern Analytical Chemistry .....	4
CHEM	331, 332	Organic Chemistry .....	8
CHEM	341, 342	Physical Chemistry .....	8
CHEM	451	Biochemistry .....	3
CHEM	454	Methods of Physical Biochemistry .....	4
CHEM	462	Inorganic Chemistry .....	3
CHEM	491	Selected Topics .....	1
CHEM	471, 472	Seminar in Chemistry	
<i>or</i>			
BIOL	380	Research Methods .....	2
		TOTAL	41

Required Cognates: CSIS 110; MATH 181, 282, 283; PHYS 121, 122.

Recommended Cognates: MATH 321; an intermediate foreign language.

### Chemistry Minor

18 hours including CHEM 111, 112 and 10 hours chosen from courses listed for the major.

## 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, 112	General Chemistry .....	8
CHEM	331, 332	Organic Chemistry .....	8
CHEM	341	Physical Chemistry .....	4
CHEM	451	Biochemistry .....	3
CHEM	462	Inorganic Chemistry .....	4
CHEM	471, 472	Seminar in Chemistry .....	2
PHYS	112	Introductory Astronomy .....	3
PHYS	121, 122	General Physics .....	8
PHYS	221, 222	General Physics with Calculus .....	2
PHYS	311	Modern Physics .....	3
PHYS		Upper Division Physics Elective .....	3
		TOTAL (27 u.d.)	48

## COURSES

### CHEM 101 Introductory Chemistry: General Chemistry

3 hours

Prerequisite: MPT score of 4 or 5\*, or Corequisite: MATH 110.

The course is designed as an introduction to the fundamental principles of chemistry. In addition to a wide range of topics from inorganic chemistry, nuclear chemistry and the chemistry of carbohydrates and proteins are also addressed. Not applicable to major, minor or teaching sequence. 3 Lec. (Fall, Spring)

### CHEM 102 Introductory Chemistry Laboratory

1 hour

Prerequisite: MPT score of 4 or 5\*, or Corequisite: MATH 110.

A laboratory course to accompany CHEM 101. Experiments cover topics from inorganic chemistry, organic, and biochemistry. Not applicable to major, minor or teaching sequence. 3 Lab. (Fall)

### CHEM 103 Introductory Chemistry: Organic and Biochemistry

3 hours

Prerequisite: CHEM 101 with grade of C or above.

Additional introductory topics from organic and biochemistry with emphasis on human metabolism. Not applicable to major, minor or teaching sequence. 3 Lec. (Spring)

### CHEM 104 Introductory Chemistry Laboratory

1 hour

Prerequisite or corequisite: CHEM 103.

A laboratory course to accompany CHEM 103. Experiments cover basic concepts from organic and biochemistry. Not applicable to major, minor or teaching sequence. 3 Lab. (Spring)

\* See Math Placement Test on page 84.



# Chemistry

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## **CHEM 111 General Chemistry 4 hours**

Prerequisite: MATH 110 or MPT score of 4 or 5\*, and Corequisite: MATH 121.

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

## **CHEM 112 General Chemistry 4 hours**

Prerequisite: CHEM 111 with a grade of C or above.

A continuation of CHEM 111. Included are discussions of solutions, acids and bases, equilibrium, and electrochemistry. 3 Lec 3 Lab. (Spring)

## **CHEM 221 Modern Analytical Chemistry 4 hours**

Prerequisite: CHEM 112 with a grade of C or above.

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

## **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 staff 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 331 Organic Chemistry 4 hours**

Prerequisite: CHEM 112 with grade of C or above, and/or permission of instructor.

The 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. (Fall)

## **CHEM 332 Organic Chemistry 4 hours**

Prerequisite: CHEM 331 with a grade of C or above.

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. (Spring)

## **CHEM 341 Physical Chemistry 4 hours**

Prerequisite: CHEM 112 or equivalent with a grade of C or above; MATH 181.

Concepts chosen from elementary quantum mechanics, classical and molecular thermodynamics. 3 Lec 3 Lab. (Fall, odd years)

## **CHEM 342 Physical Chemistry 4 hours**

Prerequisite: CHEM 341 with a grade of C or above, MATH 282 or 283 concurrently.

Continuation of CHEM 341 with emphasis on rates and mechanisms of reactions. 3 Lec 3 Lab. (Spring, even years)

\* See Math Placement Test on page 84.

## **CHEM 451 Biochemistry 3 hours**

Prerequisite: CHEM 332 with a grade of C or above, and/or permission of instructor. (CHEM 221 recommended)

The course is designed to expose the students to the fundamental aspects of biochemistry, including protein and nucleic acid chemistry, lipids, carbohydrates, and an introduction to enzymatic and metabolic processes. Quantitative understanding will be emphasized. 3 Lec. (Fall)

## **CHEM 454 Methods of Physical Biochemistry 4 hours**

Prerequisite: CHEM 451 with C or above, CHEM 221 or comparable laboratory experience, and MATH 181 or permission of the instructor.

This course will introduce students to a range of specialized topics in biochemistry including enzyme kinetics, and structure and function of membrane proteins. Bioanalytical methods will be emphasized. 3 Lec 3 Lab. (Spring, even years)

## **CHEM 462 Inorganic Chemistry 3 hours**

Prerequisite: CHEM 341 or permission of instructor.

A survey 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. (Spring, odd years)

## **CHEM 471 Seminar in Chemistry 1 hour**

An introduction to the use of the chemical literature as a source of information. While focusing on the reading and study of selected scientific papers, the course can include oral and written reports, attendance at local scientific meetings and guest lecturers. Can be started in junior year. (Offered periodically)

## **CHEM 472 Seminar in Chemistry 1 hour**

A continuation of CHEM 471. Includes a thorough literature search and bibliography with a comprehensive report on an agreed-upon topic. **This course meets the upper division writing component for senior year English.** (Offered periodically)

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

Prerequisite: Permission of chemistry faculty.

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

Robert R. Mendenhall, Chair; Glen Robinson  
Adjunct: Dixil Rodriguez

## AIMS OF THE DEPARTMENT

There is a great demand both in the United States and around the world for men and women skilled in creating and managing the elements of communication. It is the aim of this department to strengthen students' personal, public, and professional communication skills.

Communication students at Southwestern Adventist University choose one of the department's four major areas of study: broadcasting, corporate communication, journalism, or speech. Many communication students acquire valuable training and experience at one or more of the following facilities on or adjoining the campus:

88.3 KJCR, the University-owned FM station  
KGSW, channel 46, the University's broadcast TV station  
Roberts Recording Studio, the Department's  
digital audio production facility  
Cable TV Channel 49

The department encourages all upper division majors to complete an off-campus internship in radio, television, journalism, or corporate communication. Even before graduation, and sometimes as a direct result of internship positions, many of our majors are hired into a variety of communication positions.

Communication alumni from Southwestern who have continued their education through graduate school have done so very successfully. Experience has clearly indicated a need for Christian communication professionals both within and outside the Seventh-day Adventist denomination. This department prepares men and women to meet those challenges and opportunities.

## Withdrawing from or Repeating Courses

Students may withdraw from or repeat a course in their communication major or minor only one time.

## Multiple Communication Majors/Minors

A student cannot earn either two communication majors or both a communication major and minor. This is due to required course duplication and because career preparation in two academic fields is preferable to preparation in one field.

## Communication Competencies

Competence in both oral and written communication is required for progress in each of the four majors offered by the department (broadcasting, corporate communication, journalism, and speech). Competence in oral communication is considered to be the completion of speech courses required in the major or minor with a grade of C or above.

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

## PROGRAMS

B.A. Broadcasting - 36 hours (15 u.d.)  
B.A. Journalism - 36 hours (18 u.d.)  
B.A. Speech - 33 hours (12 u.d.)  
B.S. Broadcasting - 48 hours (23 u.d.)  
B.S. Corporate Communication - 42 hours (24 u.d.)  
B.S. Journalism - 48 hours (23 u.d.)  
B.S. speech - 33 hours (12 u.d.)  
Minors in Broadcasting, Corporate Communication, Journalism and Speech

## Broadcasting, B.A.

			Major	Minor
COMM	110	Mass Communication .....	3	
COMM	111	Fundamentals of Speech .....	3	3
COMM	112	Radio/TV Announcing .....	3	3
COMM	222	Media Writing .....	3	
COMM	226	Digital Audio Production I .....	3	3
COMM	230	Broadcast Journalism .....	3	
COMM	237	Video Production .....	3	3
COMM	313	Broadcasting in America .....	3	3
COMM	332	Broadcast Management .....	3	
COMM	351	Advertising .....	3	
COMM	431	Media Law and Ethics .....	3	
COMM	451	Communication Theory .....	3	3
		TOTAL .....	36	18

## Broadcasting, B.S. (This major does not require a minor.)

			Major	Minor
COMM	110	Mass Communication .....	3	3
COMM	111	Fundamentals of Speech .....	3	
COMM	112	Radio/TV Announcing .....	3	3
COMM	113	Oral Interpretation .....	3	
COMM	211	TV News Production .....	(1-2)	
COMM	222	Media Writing .....	3	
COMM	226	Digital Audio Production I .....	3	3
COMM	230	Broadcast Journalism .....	3	
COMM	237	Video Production .....	3	3
COMM	313	Broadcasting in America .....	3	3
COMM	326	Digital Audio Production II		
or COMM	337	Documentary Production .....	3	
COMM	332	Broadcast Management .....	3	
COMM	351	Advertising .....	3	
COMM	355	Understanding Film .....	3	
COMM	411	TV News Reporting .....	(1-2)	
COMM	431	Media Law and Ethics .....	3	
COMM	451	Communication Theory .....	3	3
		TOTAL .....	48	18

## Corporate Communication, B.S.

			Major	Minor
COMM	110	Mass Communication .....	3	3
COMM	111	Fundamentals of Speech .....	3	
COMM	163	Photography .....	3	
BUAD	211	Profiles of Entrepreneurship .....	3	3
COMM	222	Media Writing .....	3	
COMM	241	Public Relations .....	3	3
BUAD	301	Principles of Management .....	3	3
COMM	342	Publication Design .....	3	(0-3)
MKTG	343	Principles of Marketing .....	3	
COMM	351	Advertising .....	3	
COMM	381	Development .....	3	(0-3)
COMM	431	Media Law and Ethics .....	3	
COMM	441	Corporate Communication .....	3	3
COMM	451	Communication Theory .....	3	
		TOTAL .....	42	18

# Communication

## Journalism, B.A.

		Major	Minor
COMM 110	Mass Communication .....	3	3
COMM 111	Fundamentals of Speech .....	3	
COMM 163	Photography .....	3	
COMM 222	Media Writing .....	3	3
COMM 230	Broadcast Journalism .....	3	3
COMM 241	Public Relations.....	3	
COMM 322	News Writing and Reporting .....	3	
COMM 342	Publication Design .....	3	
COMM 383	Editorial Techniques .....	3	3
COMM 422	Feature Writing.....	3	3
COMM 431	Media Law and Ethics.....	3	3
COMM 451	Communication Theory .....	3	-
	TOTAL .....	36	18

## Journalism, B.S. (This major does not require a minor.)

		Major	Minor
COMM 110	Mass Communication .....	3	3
COMM 111	Fundamentals of Speech .....	3	
COMM 112	Radio/TV Announcing.....	3	
COMM 163	Photography .....	3	
COMM 211	TV News Production..... (1-2)		
COMM 222	Media Writing .....	3	3
COMM 230	Broadcast Journalism .....	3	3
COMM 241	Public Relations.....	3	
COMM 263	Photojournalism .....	3	
COMM 322	News Writing and Reporting .....	3	
COMM 342	Publication Design .....	3	
COMM 351	Advertising .....	3	
COMM 383	Editorial Techniques .....	3	3
COMM 411	TV News Reporting..... (1-2)		
COMM 422	Feature Writing.....	3	3
COMM 431	Media Law and Ethics.....	3	3
COMM 451	Communication Theory .....	3	-
	TOTAL .....	48	18

## Speech, B.A. or B.S.

		Major	Minor
COMM 110	Mass Communication .....	3	
COMM 111	Fundamentals of Speech .....	3	3
COMM 112	Radio/TV Announcing.....	3	
COMM 113	Oral Interpretation .....	3	(0-3)
COMM 115	Discussion Techniques.....	3	(0-3)
COMM 222	Media Writing .....	3	
COMM 233	Interpersonal Communication .....	3	3
COMM 335	Persuasion .....	3	3
COMM 431	Media Law and Ethics.....	3	
COMM 438	Rhetorical Theory and Criticism .....	3	3
COMM 451	Communication Theory .....	3	3
	TOTAL .....	33	18

## TEACHING CERTIFICATION PROGRAM

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

### Journalism B.A. or B.S. - Secondary Teaching Area

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

### Speech B.A. or B.S. - Secondary Teaching Area

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

## COURSES

### COMM 110 Mass Communication 3 hours

A critical survey of the role played by mass communication in shaping culture. Individual media institutions are examined in terms of the information they distribute, the entertainment they provide, and the influence they bring. Attention is given to the audience/medium relationship and to improving students' media literacy. (Fall)

### COMM 111 Fundamentals of Speech 3 hours

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

### COMM 112 Radio/TV Announcing 3 hours

Introduces the student to current radio and television announcing techniques. Emphasis is given to interpretation of copy, ad-lib announcing, voice analysis and improvement, interviewing techniques, pronunciation and articulation, and general speech improvement. Some attention is also given to descriptions of production practices, distribution methods, and styles in news, narration, music, and sports performance. (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. (Fall, Spring)

### 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. (Fall, Spring)

### COMM 163 Photography 3 hours

Prerequisite: Permission of instructor

Introduces the basic tools, materials, and techniques of black and white photography. Assignments are designed to develop skill in camera operation, darkroom processes, and finishing the photograph. Student must furnish 35mm single-lens reflex (SLR) camera. Supplies fee. 2 Lec 3 Lab. (Fall)

# Communication

## **COMM 211 TV News Production** **1 hour**

A laboratory class providing practical training in the production of television news. Emphasis is placed on equipment operation in both studio and location environments. May be repeated once for credit. (Fall, Spring)

## **COMM 222 Media Writing** **3 hours**

Prerequisites: ENGL 121

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

## **COMM 226 Digital Audio Production I** **3 hours**

In this course the student receives practical hands-on experience with digital audio equipment. Attention is given to mixing, recording, and editing. Includes segments on air shifts, news production, and commercial production. Supplies fee. 2 Lec 3 Lab. (Fall)

## **COMM 230 Broadcast Journalism** **3 hours**

Includes segments on broadcast news reporting, writing, and production. While emphasis is given throughout to writing style, other elements include ethics and law, news programming for various formats and markets, and careers in broadcast journalism. (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. (Spring, even years)

## **COMM 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. (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. (Fall)

## **COMM 263 Photojournalism** **3 hours**

Prerequisite: COMM 163 or permission of instructor

A study of the visual image as it is used to document social conditions. Emphasis is given to the news photograph, the feature photograph, assignment and selection of photographs, cropping, and legal and ethical considerations. Student must furnish 35mm single-lens reflex (SLR) camera. Digital photo editing skills are emphasized. Supplies fee. (Spring, odd years)

## **COMM 291 Selected Topics** **1 hour**

Prerequisite: Permission of department chair

This course offers the lower-division student opportunity to pursue investigations in fields of special interest under the direction of the departmental staff. Content and method of study must be arranged prior to registration. May be repeated for a total of 2 credits.

## **COMM 313 Broadcasting in America** **3 hours**

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

## **COMM 322 News Writing and Reporting** **3 hours**

Prerequisites: COMM 222 or permission of instructor

A continuation of COMM 222, with emphasis on the principles, practices, and ethics of news reporting, interviewing, and writing. Extensive writing. (Fall, even years)

## **COMM 326 Digital Audio Production II** **3 hours**

Prerequisite: COMM 226

Advanced study in the production of major digital audio projects. Emphasis is placed on multitrack production for commercials, news, documentaries, and music recording. Supplies fee. 2 Lec 3 Lab. (Spring, odd years)

## **COMM 332 Broadcast Management** **3 hours**

Emphasis on station management, including segments on financial and human resource management, promotion and marketing, sales, broadcast regulations, and cable television systems. (Spring, odd years)

## **COMM 335 Persuasion** **3 hours**

A study and practice of the principles and techniques involved in persuasion and persuasive speaking. Other subjects covered include the psychology of persuasion; the relation of persuasion to imaging, advertising, and propaganda; and the role of persuasion in a free society. (Spring, odd years)

## **COMM 337 Documentary Production** **3 hours**

Prerequisite: COMM 237 or permission of instructor

Advanced study in the production of information, educational and social commentary films. Emphasis placed on the historical development of the documentary and the application of present-day video technology. Video projects required. Supplies fee. (Fall, even years)

## **COMM 342 Publication Design** **3 hours**

A study of the elements and organization of both written and visual materials used in publications. Emphasis is given to learning design software, copy preparation, and layout design as they relate to newspaper, magazine, public relations, and advertising practice today. (Fall)



# Communication

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## **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. (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. Viewing and analysis of significant films in cinema history. 2 Lec 3 Lab. (Spring, even years)

## **COMM 381 Development**

**3 hours**

A study of fund-raising and the philanthropic tradition and its role in the successful operation of nonprofit organizations. Attention is given to the techniques of producing fund-raising proposals and campaigns directed to individuals, foundations, corporations, and other philanthropic organizations. (Spring, even years)

## **COMM 383 Editorial Techniques**

**3 hours**

Prerequisite: COMM 222

The principles and practices of copy preparation and editorial decision making. Emphasis is on 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. (Spring, even years)

## **COMM 411 TV News Reporting**

**1 hour**

Prerequisite: COMM 211

A laboratory course in television news reporting. Emphasis is placed on story selection and development for a local audience, studio and field production techniques, and reporter announcing skills. May be repeated once for credit. (Fall, Spring)

## **COMM 422 Feature Writing**

**3 hours**

Prerequisites: COMM 222 or permission of instructor

A course dealing with newspaper and magazine features. Emphasis is placed on publishing articles in on- and off-campus publications. Extensive practice in writing various types of feature stories and in dealing with editors and deadlines. (Fall, odd years)

## **COMM 431 Media Law and Ethics**

**3 hours**

A study of the major principles of media law and media-related ethical concerns. Emphasis is given to the most important court decisions and statutory enactments in communication law, including prior restraint, libel and slander, fair trial/free press conflicts, and the First Amendment. Attention is given to building a personal approach to ethics within the context of the individual's relationships both with supervisors and with the public. **This course meets the upper division writing component for senior year English.** (Fall, even years)

## **COMM 438 Rhetorical Theory and Criticism**

**3 hours**

A study of the forms and uses of communication artifacts as they relate to significant national and international issues. Subjects covered include the history of rhetorical theory, forms and characteristics of discourse, methodologies to define how and why we communicate, and the role public persuasion plays in creating, exacerbating, and resolving conflicts. (Fall, odd years)

## **COMM 441 Corporate Communication**

**3 hours**

A course designed to synthesize current knowledge and understanding of the role and function of corporate communication in the business environment. Emphasis is also given to the role of research in corporate communication. Attention is also given to leadership skills and the application of communication theory in business practice today. (Fall, odd years)

## **COMM 451 Communication Theory**

**3 hours**

This course presents the theoretical bases of both interpersonal and mass communication. Attention is given to the nature of inquiry and theory as well as several topics in communication theory, including system theory, signs and language, discourse, message production, social and cultural reality, experience and interpretation, and critical theories. Elements also include communication in relationships, group decision-making, organizational networks, and the media. **This course meets the upper division writing component for senior year English.** (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 Corporate Internship**

**1-3 hours**

Prerequisite: Permission of department chair.

These courses offer the advanced student college credit for on-the-job, off-campus work in radio, television, journalism, or the corporate setting under the joint direction of the departmental staff and a supervisor at the medium or business selected.

## **COMM 491 Selected Topics**

**1 hour**

Prerequisite: Permission of department chair

This course offers the advanced student opportunity to pursue investigations in fields of special interest under the direction of the departmental staff. Content and method of study must be arranged prior to registration. May be repeated for a total of 2 credits.

# Computer Science

Daryl D. Thomas, Chair; Ed R. Connell, Rob Durkin, Judith F. Miles

## AIMS OF THE PROGRAM

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

The Department of Computer Science offers three bachelor of science degree programs. The first, the Bachelor of Science in Computer Science, is intended for students who wish to pursue careers in computer science, either in industry or in academia. The second program, offered in collaboration with the Department of Business Administration, is a double major leading to a Bachelor of Science in Business Administration and Computer Information Systems. This program is intended for students who wish to apply the tools of computer science in a management context. The third program, offered in collaboration with the Education Department, leads to a Bachelor of Science in Computer Information Systems with a secondary teaching area education certification. This program is intended for those who wish to teach computer science at the secondary school level.

In addition to the above programs, the Department offers an Associate of Science degree in Computer Information Systems and a 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 126	Discrete Structures II	3
CSIS 215	Object-Oriented Programming in C++	3
CSIS 245	Introduction to LAN Technology	4
CSIS 310	Assembler Programming & Machine Organization	3
CSIS 315	Application Development for Event-Driven GUI Applications	3
CSIS 320	Data Structures & Algorithms	3
CSIS 360	Operating Systems	3
CSIS 405	Formal Languages and Automata	3
CSIS 445	Internetwork Architectures	3
CSIS 450	Principles of Database Design	3
CSIS 490	Software Engineering	3
PHYS 305	Digital Electronics	4
	C.S. Electives (upper division)	6
	<b>TOTAL</b>	<b>53</b>

## Required Cognates:

PHYS 121	General Physics I	4
PHYS 122	General Physics II	4
MATH 181	Calculus I	4
MATH 241	Statistics	3
COMM 115	Discussion Techniques	3
	<b>TOTAL</b>	<b>18</b>

**General Education and Elective Courses:** 57

**GRAND TOTAL** 128

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

We strongly suggest that students seeking a Bachelor of Science in Computer Science plan to take the above courses in the following sequence:

Freshman Year -	Fall Semester	CSIS 110, CSIS 125
	Spring Semester	CSIS 111, CSIS 126
Sophomore Year -	Fall Semester	CSIS 215, CSIS 245
	Spring Semester	CSIS 315
Junior Year -	Fall Semester	CSIS 310, CSIS 320, PHYS 305
	Spring Semester	CSIS 360, CSIS upper division elective
Senior Year -	Fall Semester	CSIS 405, CSIS 450,
	Spring Semester	CSIS 445, CSIS 490 CSIS upper division elective

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

This program is open only to students seeking a double major in Business Administration and Computer Information Systems. Students who wish to pursue this program must make formal application both to the Department of Business Administration and the Department of Computer Science.

## Business Administration Courses:

ACCT 211, 212	Accounting Principles I, II	8
BUAD 211	Profiles of Entrepreneurship	3
BUAD 301	Principles of Management	3
BUAD 311, 312	Business Law I, II	6
BUAD 321	Business Finance	3
BUAD 350	Business Ethics and Social Responsibility	3
BUAD 496	Senior Business Seminar	1
ECON 211	Macroeconomics	3
MKTG 343	Principles of Marketing	3
MKTG 402	E-Commerce Environment	3
	<b>TOTAL</b>	<b>36</b>

## Computer Information Systems Courses:

CSIS 110, 111	Principles of Computer Programming I, II	6
CSIS 125	Discrete Structures I	3
CSIS 215	Object-Oriented Programming C++	3
CSIS 245	Introduction to LAN Technology	4
CSIS 303	E-Commerce and Web Site Design	3
CSIS 315	Application Development for Event-Driven GUI Applications	3
CSIS 320	Data Structures & Algorithms	3
CSIS 360	Operating Systems	3
CSIS 445	Internetwork Architectures	3
CSIS 450	Principles of Database Design	3
CSIS 490	Software Engineering	3
	<b>TOTAL</b>	<b>40</b>

## Required Cognates:

MATH 241*	Statistics	3
MATH 236*	Applied Mathematics for Business	3
COMM 115	Discussion Techniques	3
	<b>TOTAL</b>	<b>9</b>

\*MATH 110 is a prerequisite for these classes.

**General Education and Elective Courses:** 44

**GRAND TOTAL** 129

# Computer Science

## Computer Information Systems, A.S.

CSIS 110, 111	Principles of Computer Programming I, II .....	6
CSIS 125	Discrete Structures I .....	3
CSIS 215	Object-Oriented Programming in C++ .....	3
CSIS 245	Introduction to LAN Technology .....	4
CSIS 310	Assembler Programming & Machine Organization .....	3
CSIS 315	Application Development for Event-Driven GUI Applications .....	3
CSIS 320	Data Structures & Algorithms .....	3
CSIS 360	Operating Systems .....	3
CSIS 445	Internetwork Architectures .....	3
	<b>TOTAL</b>	<b>31</b>

Required Cognate: MATH 110.

## Computer Science Minor

CSIS 110, 111	Principles of Computer Programming I, II .....	6
CSIS 205	Discrete Structures .....	3
CSIS 215	Object-Oriented Programming in C++ .....	3
CSIS 245	Introduction to LAN Technology .....	4
CSIS 315	Application Development for Event-Driven GUI Applications .....	3
CSIS 320	Data Structures & Algorithms .....	3
CSIS 445	Internetwork Architectures .....	3
	<b>TOTAL</b>	<b>25</b>

## TEACHING CERTIFICATION PROGRAM

This program of study is for secondary 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.*

## Computer Information Systems, B.S. - Secondary Teaching Area

CSIS 110, 111	Principles of Computer Programming I, II .....	6
CSIS 125	Discrete Structures I .....	3
CSIS 215	Object-Oriented Programming in C++ .....	3
CSIS 245	Introduction to LAN Technology .....	4
CSIS 310	Assembler Programming & Machine Organization .....	3
CSIS 315	Application Development for Event-Driven GUI Applications .....	3
CSIS 320	Data Structures & Algorithms .....	3
CSIS 360	Operating Systems .....	3
CSIS 445	Internetwork Architectures .....	3
CSIS 450	Principles of Database Design .....	3
CSIS 490	Software Engineering .....	3
	C.S. Electives ( <i>upper division</i> ) .....	6
	<b>TOTAL</b>	<b>43</b>

Required Cognate: MATH 241\*.

\*MATH 110 or a MPT score of 4 or 5 is prerequisite for this class.

## COURSES

### CSIS 102 Microcomputer Literacy and Applications

**3 hours**

Prerequisite: OFIS 100 or equivalent

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 105 Introduction to Computing

**3 hours**

An overview of computing as a human activity emphasizing the use of computers as tools to meet the needs of individuals and groups. Topics for study and discussion will include the history and development of computers, the impact of computers on the quality of life, information processing using computers, and ethical issues with respect to the use of information. Students will be introduced to the use of the Internet. (Fall, Spring)

### CSIS 110 Principles of Computer Programming I

**3 hours**

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

### CSIS 111 Principles of Computer Programming II

**3 hours**

Prerequisite: CSIS 110, CSIS 125

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

### CSIS 125 Discrete Structures I

**3 hours**

Corequisites: MATH 110 or equivalent

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, counting, elementary number theory, Boolean algebra, and digital logic. (Fall)

### CSIS 126 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. (Spring)

### CSIS 215 Object-Oriented Programming in C++

**3 hours**

Prerequisite: CSIS 111 or Instructor's approval

A development of a strategic object-oriented approach to problem solving — analysis, design and coding — using the C++ language. There will be a focus on the use of classes to implement abstract data types, thus supporting the modern approach to loosely linked, modular code. The overloading of functions and operators, inheritance, and polymorphism will be studied as abstraction tools. (Fall, Spring)

\* See Math Placement Test on page 84.



# Computer Science

## **CSIS 245 Introduction to Local Area Network Technology**

**4 hours**

Prerequisite: CSIS 111, CSIS 126

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, and LAN operating systems. (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 105 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. (Spring)

## **CSIS 303 E-Commerce & 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 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. (Fall)

## **CSIS 310 Assembler Programming and Machine Organization**

**3 hours**

Prerequisites: CSIS 111, CSIS 126

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

## **CSIS 315 Application Development for Event-Driven GUI Applications**

**3 hours**

Prerequisites: CSIS 215

An introduction to the event-driven programming model using a windowed graphical user interface. Emphasis will be on using available tools and libraries to speed the development of significant applications. (Spring)

## **CSIS 320 Data Structures and Algorithms**

**3 hours**

Prerequisites: CSIS 126, CSIS 215

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 360 Operating Systems**

**3 hours**

Prerequisites: CSIS 310, CSIS 320

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

## **CSIS 370 Programming Languages**

**3 hours**

Prerequisite: CSIS 215

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**

Prerequisites: CSIS 126

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

## **CSIS 445 Internetwork Architectures**

**3 hours**

Prerequisite: CSIS 245, 360

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

## **CSIS 450 Principles of Database Design**

**3 hours**

Prerequisite: CSIS 320

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

## **CSIS 490 Software Engineering**

**3 hours**

Prerequisite: CSIS 315, CSIS 320

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 meets the upper division writing component for senior year English.** (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 Internship**

**1-3 hours**

Prerequisite: Approval by Department Chair

On-the-job supervised experience in systems development and programming. 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

Randy Gilliam, Chair and Certification Officer; Carol Campbell, Michael England and Marcel Sargeant

## AIMS OF THE PROGRAM

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

## PROGRAM OBJECTIVES FOR TEACHER EDUCATION

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

1. Subject Matter Proficiency
2. Instructional Planning Using Broad Based Media
3. A Variety of Presentation Skills to meet the needs of a diverse population
4. Assessment and Screening Procedures to ensure competency
5. Supervision and Management Skills
6. Record Keeping as a Process of Accountability
7. Christian Professional and Interpersonal Responsibilities for service in their local church

## THE TEACHER EDUCATION PROGRAM

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

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

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

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

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 2001.

## ADMISSION TO THE TEACHER EDUCATION PROGRAM

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

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

1. Take the THEA exam and meet a minimum score of 260 in reading, 230 in math, and 220 in writing. Passing standards are subject to change, as the State Board of Education changes minimum standards.
2. Have completed a minimum of 60 semester hours, or be enrolled in the semester that will complete 60 hours.
3. Have a minimum cumulative grade point average (GPA) of 2.75.
4. Have completed with a "C" or higher College Algebra, Fundamentals of Speech, Freshman Composition and Research and Professional Writing or equivalent courses.
5. Secondary Education certification candidates must have a minimum cumulative GPA of 2.5 in their major courses.
6. Meet all other requirements implemented by the Education Department faculty.

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

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

## DEGREE PLAN

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

## RETENTION IN THE TEACHER EDUCATION PROGRAM

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

1. Maintain a cumulative 2.75 grade point average in all course work.
2. Secondary Education certification candidates must have a minimum cumulative GPA of 2.5 in their major courses.
3. Give evidence of satisfactory professional growth.
4. Show promising development in 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. Probationary procedures may be obtained from the Education Department.

## 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 12 consecutive weeks in accordance with the calendar of the school district. Students may not take classes at the university during the hours they are scheduled to student teach, and are limited to 12 credit hours.

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

## ADMISSION TO STUDENT TEACHING

To be eligible for student teaching, students must:

1. Be unconditionally admitted to the Teacher Education Program.
2. Maintain an overall grade point average of not less than 2.75.
3. Maintain a grade of 'C' or better in courses in the teaching field(s), or academic specialization area, with an overall grade point average of not less than 2.75.
4. Maintain a grade of 'C' or better in the courses in professional education, with an overall grade point average of not less than 2.75.
5. Secondary Education certification candidates must have a minimum cumulative GPA of 2.5 in their major courses.
6. Complete a minimum of 45 clock hours of satisfactory work in the field experience component of the professional education courses.
7. Have senior status.
8. Have a commitment to high moral and ethical standards, as defined by the SWAU bulletin.
9. File an application for student teaching by April 1 for a fall student teaching assignment, and by October 1 for a spring assignment.

The Teacher Education Committee will review all applications to determine eligibility for student teaching. Admission to the Teacher Education Program does not necessarily ensure acceptance into Student Teaching. Appeals to any decision must be made in writing to the Teacher Education Council and if needed to the Vice President for Academic Affairs.

## 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 certificate is sought.
2. Minimum GPA of 2.75 on course work related to the area of specialization and the teaching field.
3. Acceptable scores on the appropriate professional development and content specialization portions of the TExES exam.
4. 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 Early Childhood-Grade 4 (EC-4), Grades 4-8 (GR 4-8) and Grades 8-12 (GR 8-12) with specialization in English, History, Journalism, Life Science, Physical Science, Mathematics, Speech, Social Studies or Computer Information Systems, or All Level Physical Education or Music for Early Childhood-Grade 12 (EC-12).

# Education

## PROGRAMS

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

### A. ACADEMIC FOUNDATIONS (required for EC-4, GR4-8, GR8-12, All Level PE or Music K-12)

General Education Curricula Minimum Requirements\*

<b>ENGLISH</b> .....	12
ENGL 121+ Freshman Composition .....	3
ENGL 220+ Research and Professional Writing .....	3
ENGL 231 or	
ENGL 232 American Literature .....	3
ENGL 464 Advanced Grammar .....	3
<b>SPEECH</b> .....	3
COMM 111+ Fundamentals of Speech	
<b>SOCIAL SCIENCE</b> .....	9
HIST 111 American History .....	3
HIST 112 American History .....	3
POLS 211 Texas & National Constitutions .....	3
<b>MATH/NATURAL AND COMPUTER SCIENCE</b> .....	12-14
MATH 110+ Math (College Algebra or above).....	3
Two classes of lab Science .....	6-8
CSIS 102 Computer Literacy .....	3
<b>BEHAVIORAL SCIENCE AND HUMANITIES</b> .....	9
MUHL 221 Survey of Music .....	3
SOCI 111 Sociology .....	3
PSYC 212 General Psychology .....	3
<b>HEALTH AND PHYSICAL EDUCATION</b> .....	4
111 Health & Wellness .....	3
P.E. Activity Elective.....	1
<b>RELIGION**</b> .....	12
RLGN 101 Christian Beliefs .....	3
RLGN 230 History of the SDA Church .....	3
RLGN 211 Life and Teachings.....	3
Upper Div. Old Testament, New Testament, or other Bible content class.....	3
<b>UNIVERSITY SUCCESS***</b> .....	1
<b>TOTAL</b>	62-64

\* Students who qualify for honors classes may substitute where appropriate.  
 \*\* Transfer students from non SDA schools must take one religion course per 30 credits taken in residence at SWAU with a minimum of six hours.  
 \*\*\* All freshmen who have taken less than 12 previous college hours must enroll in the University Success course.  
 + Must earn a "C" or better.

### B. PROFESSIONAL DEVELOPMENT (required for Elementary Education Majors and for Secondary Education Certification)

PSYC 311 Human Growth and Development.....	3
EDUC 254 Intro to the Teaching Profession .....	3
EDUC 263 Religion in the SDA School* .....	3
EDUC 312 Educational Psychology .....	3
EDUC 316 Legal and Ethical Foundations of Education .....	3
EDUC 326 Exceptional Children .....	3
EDUC 334 Principles of Testing, Assessment and Classroom Management .....	3
EDUC 350 Educational Technology .....	3
EDUC 384 Reading in the Content Areas .....	3
EDUC 465, 475, 485 Directed Teaching (selected for chosen Certification) .....	6
<b>TOTAL</b>	33

#### Secondary Education Certification also requires:

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

\* for SDA certification only

### C. ACADEMIC SPECIALIZATION

#### ELEMENTARY EDUCATION MAJORS

##### Option I (Early Childhood - Grade 4)

PETH 243 P.E./Health in the Elementary School.....	3
MUED 253 Music in the Elementary School .....	3
EDUC 364 Kindergarten Materials & Methods .....	3
EDUC 366 Educational Programs for Young People .....	3
EDUC 375 Children's Literature and the Teaching of Reading .....	3
EDUC 382 Reading and Language Arts in the Elementary School .....	3
EDUC 386 Mathematics in the Elementary School .....	3
EDUC 413 Science in the Elementary School .....	3
EDUC 419 Social Studies in the Elementary School .....	3
EDUC 421 Math & Science Standards in the Elementary School .....	3
EDUC 424 Language Arts Essential Skills in the Elementary School .....	3
<b>TOTAL</b>	33

##### Option II (Grade 4 - Grade 8)

ARTS 223 Arts & Crafts .....	3
PETH 243 PE/Health in the Elementary School .....	3
MUED 253 Music in the Elementary School .....	3
GEOG 311 Geography.....	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 Math in the Elementary School .....	3
EDUC 413 Science in the Elementary School .....	3
EDUC 419 Social Studies in the Elementary School .....	3
EDUC 421 Math & Science Standards in Elementary School.....	3
EDUC 424 Language Arts Essential Skills in the Elementary School .....	3
<b>TOTAL</b>	33



## SECONDARY EDUCATION CERTIFICATION

### Option I

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

Computer Information Systems, English, History, Journalism, Life Science, Mathematics, Physical Science, Speech

With the exception of Journalism and Physical Science, these areas are not composite majors and would therefore also require a minor to be completed.

### Option II

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

Computer Information Systems, English, History, Journalism, Life Science, Mathematics, Physical Science, Speech

### Option III

Option III shall prepare the individual to teach in grades 8-12 and shall require the completion of a broad teaching field with 24 semester hours of upper division courses. May include the following area:

Business

### Option IV

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

Social Studies

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

Option five 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 VI - All Level Certification for Music (Grades EC-12)

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

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

## EDUCATION COURSES

### EDUC 254 Introduction to the Teaching Profession 3 hours

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

### EDUC 263 Religion in the SDA School 3 hours

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

### EDUC 291 Selected Topics 1-2 hours

Prerequisite: Admission to teacher education, 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 312 Educational Psychology 3 hours

Prerequisite: PSYC 212

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 meets the upper division writing component for senior year English.** (Fall)

### EDUC 316 Legal and Philosophical Foundations of Education 3 hours

Prerequisite: Admission to teacher education.

A study of the legal aspects of education, with emphasis on the responsibilities, duties, and existing constitutional statutory rights of agencies and individuals, including the handicapped, and those from minority groups. This course also surveys the philosophic enterprise, from the Christian viewpoint, as it relates to the understanding and evaluation of contemporary movements in educational thinking. (Spring)

### EDUC 322 Adolescent Psychology 3 hours

An overview of the physical, mental and emotional phases of human development during the adolescent years. A study of the environmental and educational problems of the teenager. (Also taught as PSYC 322.) (Spring)

### EDUC 326 Exceptional Children 3 hours

Prerequisite: Admission to teacher education

A study in understanding educational and psychological problems in all areas of exceptionality. Study will include the characteristics, assessment, admission, review, and dismissal processes for special students requiring individualized or specialized programs. Includes field experience option. (Also taught as PSYC 326.) (Spring)



# Education

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**EDUC 334 Principles of Testing, Assessment, and Classroom Management 3 hours**

Prerequisite: Admission to teacher education and senior class status  
Consideration is given to the construction and use of standardized evaluation instruments and performance-based assessment procedures, including the development of a professional portfolio. Attention is given to methods of grading and reporting that enhance teaching and learning. Focus will also be on classroom management techniques that create an environment where students feel valued and respected. **This course meets the upper division writing component for senior year English.** (Spring)

**EDUC 350 Educational Technology 3 hours**

Prerequisite: Admission to teacher education program  
Examination of both soft and hard technology. Emphasis is on multiple intelligences, learning styles, informational processing habits, and motivational factors that are integrated into multi-media planning using software to develop units of instruction. A working knowledge of Microsoft Office is needed before enrolling in this class. (Fall)

**EDUC 364 Kindergarten Materials and Methods 3 hours**

Prerequisite: Admission to teacher education and EDUC 366  
A course designed to acquaint the student with developmentally appropriate kindergarten curriculum, with emphasis on addressing each child's individual needs, abilities, interests, and cultural diversity. Includes topics such as language and literacy, puppets, dramatic play, art, sensory centers, music and movement, math, science, and social studies. Includes field experience. (Fall)

**EDUC 366 Educational Programs for Young Children 3 hours**

Prerequisite: Admission to teacher education  
A course designed to acquaint the student with the what, who, why, where, and how of early childhood education, ranging from the history of early childhood education to the implementation of developmentally appropriate practice. Includes field experience. (Spring)

**EDUC 375 Children's Literature and the Teaching of Reading 3 hours**

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

**EDUC 382 Reading and Language Arts in the Elementary School 3 hours**

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

**EDUC 384 Reading in the Content Areas 3 hours**

Prerequisite: Admission to teacher education  
A study of the basic principles of teaching reading in the content areas and in the secondary school. Study will include concepts, methods, materials, and organizational skills for reading instruction. Includes field experience. (Fall)

**EDUC 386 Mathematics in the Elementary School 3 hours**

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

**EDUC 413 Science in the Elementary School 3 hours**

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

**EDUC 419 Social Studies in the Elementary School 3 hours**

Prerequisite: Admission to teacher education  
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 421 Mathematics & Science Standards in the Elementary School 3 hours**

Prerequisite: Admission to teacher education program, EDUC 386, and EDUC 413  
A course designed to equip students with mathematics and science standards in elementary schools and to gain a better understanding of these standards as they relate to the TExES. (Spring)

# Education

**EDUC 424 Language Arts Essential Skills  
in the Elementary School 3 hours**

Prerequisite: Admission to the teacher education program and EDUC 382

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

**EDUC 450 Teaching in the Secondary School 3 hours**

Prerequisite: Admission to student teaching

A study of the teacher's role, teaching techniques, classroom management and evaluation of learning experiences in the secondary school as these affect all students, including the those with special needs and minorities. Includes field experience. (Fall)

**EDUC 465 Directed Teaching in Kindergarten 3 hours**

Prerequisite: Two-thirds of the professional education classes, academic specialization(s) and academic foundations, senior standing, and admission to student teaching

This course is open only to students seeking Kindergarten Endorsement. Requires full-day observations and student teaching in an approved kindergarten for six weeks under the direction of supervising teachers. Pass/fail course. (Fall, Spring)

**EDUC 475 Directed Teaching in  
Elementary School 3-6 hours\***

Prerequisite: Two-thirds of the professional education classes, academic specialization(s) and academic foundations, senior standing, and admission to student teaching

This course is open only to students seeking certification in Elementary Education. It requires full-day observations and student teaching in an approved elementary school for twelve weeks under the direction of supervising teachers. Pass/fail course.

\*Depends on certification emphasis. (Fall, Spring)

**EDUC 485 Directed Teaching in  
Secondary School 6 hours**

Prerequisite: Two-thirds of the professional education classes, academic specialization(s) and academic foundations, senior standing, and admission to student teaching

This course is open only to students seeking certification in Secondary Education. It requires full-day observations and student teaching in an approved secondary school for twelve weeks under the direction of supervising teachers. Pass/fail course. (Fall, Spring)

**EDUC 491 Selected Topics 1-2 hours**

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

A study in an area of student interest under the direction of a staff member. This study may involve research, laboratory, or library work. Content and method of study must be arranged prior to registration. May be repeated for a total of 3 credits. (Fall, Spring)

**OTHER COURSES REQUIRED**

**ARTS 223 Arts and Crafts 3 hours**

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

**PETH 243 Physical Education/Health in  
the Elementary School 3 hours**

Prerequisite: Admission to teacher education program

The course provides the teacher with an extensive repertoire of teaching techniques in the elementary physical education program. Emphasis is placed on health-related fitness, skill development, special events, and game development. One-half of the course involves a teaching lab where local area elementary students come to SWAU Gym and are instructed by class members. (Fall)

**MUED 253 Music in the Elementary School 3 hours**

A course designed to prepare teachers to direct the music activities of children. The contents include fundamentals, appreciation, singing and rhythm activities. (Fall)

# Engineering

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Bill Atkins, Engineering Advisor

## PROGRAM

Southwestern Adventist University, in conjunction with Walla Walla College, offers an engineering program with major emphasis in mechanical, civil or electrical engineering and bioengineering.

English (3 units), history (1 unit), chemistry (1 unit), physics (1 unit), mathematics (3 units: Algebra I, geometry and trigonometry) on the secondary level are required for entrance into the engineering program. The freshman year is taken on the campus of Southwestern Adventist University, while the sophomore, junior and senior years are taken on the campus of Walla Walla College.

## FRESHMAN YEAR

### Fall

ENGL	121	Freshman Composition .....	3
CHEM	111	General Chemistry .....	4
RLGN		Elective .....	3
MATH	121	Precalculus .....	3
COLL	101	Freshman Success .....	1
		Humanities or Social Studies elective .....	<u>3</u>
		TOTAL	17

### Spring

CSIS	110	Principles of Computer Programming .....	3
CHEM	112	General Chemistry .....	4
MATH	181	Calculus I .....	4
PEAC		Elective .....	1
RLGN		Elective .....	3
		Humanities or Social Studies elective .....	<u>3</u>
		TOTAL	18

Judy Myers Laue, Chair; Renard K. Doneskey, Andrew Woolley III  
Adjunct: Donna Guerrero, Herbert Roth

## AIMS OF THE DEPARTMENT

The English Department provides classes and support for English majors, English minors, and general studies students. In Freshman Composition and Research and Professional Writing all students at the university learn how to write coherent, well-organized essays. In the junior year students 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 advanced composition.

Students may elect courses which prepare them for careers as secondary English teachers or for graduate study in English. A major in English is also an important asset to any student who wishes to specialize in several professional areas: law, medicine, business, public relations, or federal service.

## General Information

ENGL 121 and 220 must be completed in sequence during the freshman and sophomore years before any other course in English can be taken.

## English, B.A.

ENGL 221	World Masterpieces I or	
ENGL 222	World Masterpieces II .....	3
ENGL 224	Survey of English Literature .....	3
ENGL 231	American Literature I .....	3
ENGL 232	American Literature II .....	3
ENGL 414	History of the English Language .....	3
ENGL 415	Advanced Composition .....	3
ENGL 458	Literary Analysis .....	3
ENGL 464	Advanced Grammar* .....	3

And a minimum of 12 hours from: .....	12
ENGL 451	Studies in Renaissance Literature (3)
ENGL 452	Studies in 17th Century Literature (3)
ENGL 453	Studies in 18th Century Literature (3)
ENGL 455	Studies in Romantic Literature (3)
ENGL 456	Studies in Victorian Literature (3)
ENGL 457	Studies in 20th Century Literature (3)
TOTAL	36

\*ENGL 464 is prerequisite to EDUC 485.

## English Minor

ENGL 221	World Masterpieces I or	
ENGL 222	World Masterpieces II .....	3
ENGL 224	Survey of English Literature .....	3
ENGL 231	American Literature I .....	3
ENGL 232	American Literature II .....	3

And a minimum of 6 hours from: .....	6
ENGL 451	Studies in Renaissance Literature (3)
ENGL 452	Studies in 17th Century Literature (3)
ENGL 453	Studies in 18th Century Literature (3)
ENGL 455	Studies in Romantic Literature (3)
ENGL 456	Studies in Victorian Literature (3)
ENGL 457	Studies in 20th Century Literature (3)
TOTAL	18

## TEACHING CERTIFICATION PROGRAM

The following English major and minors are for teaching certification only. Requirements for certification are listed in the Education section of this bulletin.

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

## English, B.A. - Secondary Teaching Area

The student must meet the requirements for a B.A. degree in English.

## English Minor - Secondary Teaching Area

### Option II

ENGL 221	World Masterpieces I or	
ENGL 222	World Masterpieces II .....	3
ENGL 224	Survey of English Literature .....	3
ENGL 231	American Literature I .....	3
ENGL 464	Advanced Grammar* .....	3

And a minimum of 12 hours from: .....	12
ENGL 451	Studies in Renaissance Literature (3)
ENGL 452	Studies in 17th Century Literature (3)
ENGL 453	Studies in 18th Century Literature (3)
ENGL 455	Studies in Romantic Literature (3)
ENGL 456	Studies in Victorian Literature (3)
ENGL 457	Studies in 20th Century Literature (3)
TOTAL	24

# English

## COMPOSITION COURSES

### **ENGL 021 Composition Review** 3 hours

This class is required of students whose SAT verbal score is below 400 or whose ACT composite score is below 17. Those students who enroll in ENGL 121 and demonstrate in their introductory essay that they need reinforcement in basic mechanics, usage, and structure will be advised to enroll in this class. Credit will not apply toward graduation.

A basic review of spelling, punctuation, and grammar. Special emphasis will be given to the construction of a coherent paragraph. (Fall, Spring)

### **ENGL 121 Freshman Composition** 3 hours

Prerequisite: Minimum SAT verbal score of 400, a minimum ACT composite 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.

The course will cover the principles and practice of expository and argumentative writing. (Fall, Spring)

### **ENGL 220 Research and Professional Writing** 3 hours

Prerequisite: ENGL 121 and sophomore status

This course is designed to teach students the basic principles behind all on-the-job research and professional writing. Structured for students from a variety of academic disciplines, the course emphasizes three fundamental principles: writing in terms of audience and purpose, writing to emphasize important information, and writing clearly and concisely. This course requires the construction of a research paper in which students are given the opportunity to choose topics from their major areas of specialization and demonstrate their ability to evaluate scholarship critically and synthesize it. (Fall, Spring)

### **ENGL 415 Advanced Composition** 3 hours

Prerequisite: ENGL 121, 220

An advanced course in the art of rhetoric. Students will study the components of the rhetorical context in which all communication exists. The writing process will be reviewed in detail. Special attention will be devoted to style. Students will develop the ability to make appropriate rhetorical choices. (Spring, odd years)

## LITERATURE COURSES

### **ENGL 221 World Masterpieces: Ancient to Enlightenment** 3 hours

Prerequisite: ENGL 121, 220

A basic course with emphasis on an understanding of and an appreciation for the various types of literature including poetry, drama, and prose. Selections will be chosen from English and World literature. (Fall)

### **ENGL 222 World Masterpieces: Enlightenment to Contemporary** 3 hours

Prerequisite: ENGL 121, 220

A continuation of the study of world masterpieces from the Enlightenment to modern literature. (Spring)

### **ENGL 224 Survey of English Literature** 3 hours

Prerequisite: ENGL 121, 220

A survey of major figures and trends in British literature from the Anglo-Saxon period into the 20th century. (Spring)

### **ENGL 231 American Literature I** 3 hours

Prerequisite: ENGL 121, 220

A comprehensive study of the major writers and literary movements from 1609-1860 with emphasis on Franklin, Hawthorne, Whitman, and Dickinson. The class focuses on the establishment of a distinctly American literature in both content and style. (Spring)

### **ENGL 232 American Literature II** 3 hours

Prerequisite: ENGL 121, 220

A continuation of the study of American literature from 1860-present with emphasis on Twain and Chopin. Deals with the genres of the novel, poetry, the short story, and the essay with focus on the way Americans prefer individual freedom to society's accepted norms. (Fall)

### **ENGL 241 Literary Seminar** 3 hours

Prerequisite: ENGL 121, 220

A study of literature in an approach other than by literary period, for example, by genre, by theme, or by author. Content will change depending on the year in which it is taught. May apply toward the general education requirement. May be repeated once for credit with a different topic. (Fall, even years)

### **ENGL 451 Studies in Renaissance Literature** 3 hours

Prerequisite: ENGL 121, 220

The historical and literary background of the English Renaissance from 1485-1616 with emphasis on the most significant writers of the period, including Shakespeare. (Spring, even years)

### **ENGL 452 Studies in 17th Century Literature** 3 hours

Prerequisite: ENGL 121, 220

English prose and poetry from 1603-1660 with particular attention to the poetry of Jonson, Donne, and Herbert; and a more detailed study of John Milton and his major poems. (Fall, odd years)

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

Prerequisite: ENGL 121, 220

English poetry and prose from 1660-1800 with special attention to the major works of Dryden, Swift, and Pope. (Fall, even years)

### **ENGL 455 Studies in Romantic Literature** 3 hours

Prerequisite: ENGL 121, 220

Representative English Romantic poetry and prose with special emphasis on Wordsworth, Coleridge, Shelley, Keats, and Byron. (Spring, odd years)

### **ENGL 456 Studies in Victorian Literature** 3 hours

Prerequisite: ENGL 121, 220

A study of British poetry, novels, essays, and plays from 1830-1900. Emphasis on Dickens, R. Browning, Hardy, and E. Bronte. (Fall, odd years)



**ENGL 457 Studies in 20th Century Literature 3 hours**

Prerequisite: ENGL 121, 220

A study of the major trends and writers in English and American literature since 1900. (Spring, even years)

**ENGL 458 Literary Analysis 3 hours**

Prerequisite: Completion of all lower-division English requirements.

An examination of literary theories and genres and their application to selected works of literature. Designed as a capstone to the English major, this class will be taken during the student's senior year and serves as the **fourth-year writing class**. (Spring)

## **OTHER COURSES**

**ENGL 272 Introduction to Drama 3 hours**

Prerequisite: Permission of instructor

A study of representative plays written in English, considering their literary history and dramatic staging. Students will help to produce a play for the university, cultivating voice control, stage presence, character creation, and stage management. (Elective credit only; does not apply toward the general education requirement.) (Spring)

**ENGL 291 Selected Topics 1-3 hours**

Prerequisite: Approval by department chair

This course offers the student opportunity to pursue investigations in fields of special interest under the direction of the departmental staff. Content and method of study must be arranged prior to registration. May be repeated for a total of 3 credits.

**ENGL 414 History of the English Language 3 hours**

Prerequisite: ENGL 121, 220

A linguistic study of the history of the English language through modern English. Also, study 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 and methods for teaching basic English grammar. Also, study will be given to current theories and rules of grammar. (Fall, even years)

**ENGL 491 Selected Topics 1-3 hours**

Prerequisite: Approval by department chair

This course offers the advanced student opportunity to pursue investigations in fields of special interest under the direction of the departmental staff. Content and method of study must be arranged prior to registration. May be repeated for a total of 3 credits.

# English as a Second Language

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Edith Willis, Program Director

## ENGLISH AS A SECOND LANGUAGE

Intensive English Language courses are designed to immerse limited English proficient (LEP) students in the English language. 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, and speech, reading, and writing skills. Classes and laboratories are taught in English for five to eight hours a day, according to the individual student's needs. Formal classes will be supplemented by informal discussion groups, modern language lab, interactions with native-English speaking tutors, role-playing and field trips. Twelve hours of ESL classes may apply to a Bachelor's Degree and six hours may apply to an Associate Degree.

## ADMISSION

Students must meet all admission requirements for enrollment at Southwestern Adventist University.

Students taking ESL classes will take the Michigan Placement Test to determine the level of ESL classes best suited to their level of English proficiency. Students will then be advised on the courses they should take: Level 1, 2, or 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.

For academic advising, the results of the ESL course work will be evaluated along with the Michigan Test of English Language Proficiency.

### ESOL 110 Oral Composition 3 hours

A basic course that introduces language used in everyday life on the university campus and in society. Emphasis is placed on the development of vocabulary, phrases necessary to function in all social interactions, clear pronunciation, and fluent speech. The class meets five times a week and four hours of lab are required. (Fall, Spring)

### ESOL 112 Advanced Oral Composition 3 hours

This course includes an introduction to the phonology of the English language. Specific listening skills are developed. Class time is given to practical exercises developing extemporaneous and prepared speech. Fluency and accuracy are encouraged. This class meets five times a week and four hours of lab are required. (Fall, Spring)

### ESOL 120 Grammar 3 hours

Introduction to the basics of English spelling, handwriting, parts of speech, punctuation, and sentence patterns. The class meets five times a week. (Fall, Spring)

### ESOL 125 Advanced Grammar 3 hours

Study of the structure of English sentence patterns, parts of speech, all verb tenses and forms, idioms, and spelling. The class meets five times a week. (Fall, Spring)

### ESOL 130 Reading I 3 hours

An introduction to reading in the English language with emphasis on developing vocabulary, and phonetic and comprehension skills. This course meets five days a week. (Fall, Spring)

### ESOL 135 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 and judgments. This course meets five days a week. (Fall, Spring)

### ESOL 140 Writing 3 hours

This course is designed to develop the creation of original sentences and paragraphs using the four rhetorical modes. The class meets five times a week. (Fall, Spring)

### ESOL 145 Advanced Writing 3 hours

Development of the five paragraph essay in the four rhetorical patterns. Emphasis is on fluency and speed of production. The class meets five times a week. (Fall, Spring)

### ESOL 200 University Experience Studies 3 hours

This course is designed to expose nonnative English speakers to a variety of teachers in a variety of fields. This is to enable students to evaluate their own ability to cope with different usage of English and teaching styles. (Fall, Spring)

### ESOL 210 English Composition Skills 3 hours

This course is designed to aid those students for whom English is a second language, and whose writing skills are not yet up to college entrance standards to develop the writing skills necessary for college entrance. The course includes intensive writing practice and vocabulary development. (Fall, Spring)

### ESOL 215 Speech Composition and Comprehension 3 hours

A study of the phonology of the English language, with in-class practice of the sounds, stress, intonation, and inflection of words, phrases, and sentences. This class emphasizes listening skills necessary for taking notes in mainstream classes. Emphasis is given to correct pronunciation and fluent speech. The class meets five times a week and three hours of lab are required. (Fall, Spring)

### ESOL 220 Reading III 3 hours

This course is designed to bring the reading skills of LEP students up to college entry standards. This course includes intensive exercises in reading: comprehension, vocabulary, and reading rate. (Fall, Spring)

### ESOL 230 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)

# Fine Arts/Art

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David Anavitarte, Chair  
Adjunct: Charles Varner

## **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 Drawing 3 hours**

An introduction to the media and techniques of drawing. Development of perceptual skills and application of the elements and principles of two-dimensional design. (Fall, even years)

### **ARTS 212 Introduction to Painting 3 hours**

A course in the basics of painting with transparent water color including color mixing, manipulative skills, observational skills, design and composition. (Fall, odd years)

### **ARTS 223 Arts and Crafts 3 hours**

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

### **ARTS 312 Advanced Painting 3 hours**

Prerequisite: ARTS 212

Application of "Introduction to Painting" skills as students develop their personal expressive style with their preferred subject matter. (Spring, even 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 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 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.

# Fine Arts/Music

David R. Anavitarte, Chair;  
Adjunct: John Boyd, Mugur Doroftei, Timothy Scholl, Teri Seiler,  
Eunsuk Yang-Dubiel

## AIMS OF THE MUSIC DEPARTMENT

Music classes are offered to provide an atmosphere in which students can learn to be proficient performers and music leaders in their home communities, schools, and churches.

The music program offers classes which provide experience in solo performance, ensemble playing, and choral singing as well as keyboard and instrumental instruction.

Since music is an important, creative outlet for emotion and a means of spiritual expression, a high priority is placed on individual involvement by many students in all academic disciplines.

The music program is positioned to serve in a variety of ways and several of the following programs indicate the underlying philosophy that music is all inclusive, an important activity for all people, and an art that can be combined with other academic offerings.

## PROGRAMS

B.A. Music  
B.S. Music  
Music minor  
Teaching Area - Secondary Certification

## ENTRANCE REQUIREMENTS

Students in the Music Degree Program must take a functional keyboard facility examination the first semester in residence. Those failing this examination must enroll in MUPF 151 each semester in residence until the examination is passed, or until four semesters of piano lessons are completed.

## GENERAL REQUIREMENTS

1. A senior recital is required for all majors.
2. Each major or minor will perform in at least one recital per semester.
3. All majors will perform each semester for a jury composed of the music faculty.
4. A student is encouraged to practice ten hours a week in their major performance area.
5. The first semester is a conditional time when the student will show their ability to function as a music major. This includes music theory and performance skills. At the end of the first semester the student's progress and potential will be evaluated. The student will be notified in writing if they have achieved full music major status.
6. 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.
7. Majors will attend all general, major, minor, and faculty recitals. In addition, two approved off-campus recitals per semester are required. If a major misses a recital, a suitable replacement approved by the chair must be arranged.

## Music, B.A.

The Bachelor of Arts in music is a nonprofessional degree designed to give the student a broad understanding of the musical heritage of man.

MUCT	111	Music Theory I	3
MUCT	151	Music Theory II	3
MUCT	221	Music Theory III	3
MUCT	251	Music Theory IV	3
MUHL	311	Music History I	3
MUHL	312	Music History II	3
MUPF		Applied Music	7
MUEN		Music Ensemble (lower division)*	2
MUEN		Music Ensemble (upper division)*	2
MUCT	414	Orchestration and Arranging or	
MUCT	416	Composition	3
		TOTAL	32

\*One major ensemble required for each semester in residence.

## Music, B.S.

MUCT	111	Music Theory I	3
MUCT	151	Music Theory II	3
MUCT	221	Music Theory III	3
MUCT	251	Music Theory IV	3
MUCT	414	Orchestration and Arranging or	
MUCT	315	Form and Analysis	3
MUCT	416	Composition	3
MUED	280	Basic Conducting	1
MUED	380	Choral Conducting	2
MUED	381	Instrumental Conducting	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	41

\*One major ensemble required for each semester in residence.

## Music Minor

MUCT	111	Music Theory I	3
MUCT	221	Music Theory II	3
MUHL	221	Survey of Music	3
MUED	280	Basic Conducting	1
MUED	380	Choral Conducting or	
MUED	381	Instrumental Conducting	2
MUED		Pedagogy	2
MUEN		Ensemble	2
MUPF		Applied Music	3
		TOTAL	19

# Fine Arts/ Music

## TEACHING CERTIFICATION PROGRAM

The following Music 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.

### Music, B.A. or B.S. - Secondary Teaching Area

The student must meet the requirements for a B.A. or B.S. degree in Music. In addition, the following courses are required:

MUED 355	Music in the School: K-12	2
	Emphasis chosen from below	6

#### Piano Emphasis:

MUED 452	Piano Technique and Pedagogy	2
MUPF 161	Organ	2
	choice of MUED 372, MUED 374, or MUED 451	2

#### Voice Emphasis:

MUED 451	Voice Technique and Pedagogy	2
	choice of Piano lessons (4 hours) or Piano lessons (2 hours) and MUED 452 Piano Pedagogy (2 hours)	4

#### Instrumental Emphasis:

MUED 371	Percussion Technique and Pedagogy	2
MUED 372	Brass Technique and Pedagogy	2
MUED 374	Woodwind Technique and Pedagogy	2

### Music Minor - Secondary Teaching Area

MUHL 221	Survey of Music	3
MUCT 111	Music Theory I	3
MUCT 151	Music Theory II	3
MUED 355	Music in the School: K-12	2
MUED 280	Basic Conducting	1
MUED 380	Choral Conducting	2
MUED 381	Instrumental Conducting	2
MUEN	Ensemble ( <i>lower division</i> )	2
MUEN	Ensemble ( <i>upper division</i> )	1
MUED	Pedagogy	2
MUPF	Applied Music ( <i>lower division</i> )	2
MUPF	Applied Music ( <i>upper division</i> )	2
	TOTAL	25

## COURSES

### MUEN Ensembles

1 hour

Prerequisite for 300 level courses: 2 semesters credit at the 100 level in the same ensemble.

Practical experience in the performance of selected ensemble works. (Fall, Spring)

MUEN 111	MUEN 311	Choraliers
MUEN 161-1	MUEN 361-1	Piano Ensemble
MUEN 161-2	MUEN 361-2	Camerata
MUEN 161-3	MUEN 361-3	University Singers
MUEN 161-4	MUEN 361-4	Southwestern Brass
MUEN 181	MUEN 381	Concert Band

## MUSIC PERFORMANCE

### MUPF Applied Music

1 hour

Weekly private instruction with major teacher in piano, voice, organ, brass woodwinds, percussion, and strings. (Fall, Spring)

MUPF 102	Class Guitar	
MUPF 111	MUPF 311	Strings
MUPF 131	MUPF 331	Voice
MUPF 141	MUPF 341	Brass
MUPF 151	MUPF 351	Piano
MUPF 161	MUPF 361	Organ
MUPF 171	MUPF 371	Woodwinds
MUPF 182	MUPF 382	Percussion
MUPF 191	MUPF 391	Guitar

### MUPF 468 Music Major Senior Recital

1 hour

The final semester of applied music lessons for the music major, culminating in the senior recital. (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. This does not fulfill the requirements for a music major. (Fall, Spring)

### MUHL 311 Music History I

3 hours

Prerequisite: MUCT 251

A study of the history, style, and musical forms of the antiquity through the Baroque period. Music analysis and listening assignments will supplement lectures. This course meets the upper division for Senior year English. (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 meets the upper division for Senior year English. (Spring)



# Fine Arts/Music

## MUSIC EDUCATION

### **MUED 253 Music in the Elementary School** 3 hours

Music in the education of children six to twelve years of age. Students develop their philosophy of music education as they practice methods for guiding children in musical experiences of listening, performing, and creating to foster aesthetic and cognitive growth. (Fall)

### **MUED 280 Basic Conducting** 1 hour

Prerequisite: MUCT 151

The study and drill of basic conducting patterns and coordination of hand and baton techniques. (Fall, Spring)

### **MUED 355 Music in the School: K-12** 2 hours

Prerequisite: MUCT 251

Music in the school from kindergarten through high school. Covers objectives, organization of subject matter, teaching techniques, and materials for general music classes. Will involve observation in the classroom. (Spring)

### **MUED 380 Choral Conducting** 2 hours

Prerequisite: MUED 280

The study of Choral Repertoire from all periods as well as emphasis on score reading, rehearsal techniques, and conducting problems with regard to choral ensembles. (Fall)

### **MUED 381 Instrumental Conducting** 2 hours

Prerequisite: MUED 280

Conducting patterns applied to elements of interpretation. Emphasis on score reading, rehearsal techniques, and conducting problems. Practical application in active musical organizations. (Spring)

### **MUED Technique & Pedagogy** 2 hours

An introduction to teaching and performing through intermediate level. Performance techniques, pedagogical methods and materials, maintenance and practical teaching experience. (Fall, Spring)

### **MUED 371 Percussion**

### **MUED 372 Brass**

### **MUED 373 Strings**

### **MUED 374 Woodwind**

### **MUED 451 Voice**

### **MUED 452 Piano**

## MUSIC THEORY

### **MUCT 111 Music Theory I** 3 hours

An integrated study of harmony, keyboard harmony, counterpoint, form, and style at a comparatively elementary level. (Fall)

### **MUCT 151 Music Theory II** 3 hours

Prerequisite: MUCT 111

An integrated study of harmony, keyboard harmony, counterpoint, form, and style with basic concepts of music in more complex musical situations. (Spring)

### **MUCT 221 Music Theory III** 3 hours

Prerequisite: MUCT 151

An integrated study of harmony, keyboard harmony, counterpoint, form, and style with basic concepts of music at an advance level. (Fall)

### **MUCT 251 Music Theory IV** 3 hours

Prerequisite: MUCT 221

An integrated study of harmony, keyboard harmony, counterpoint, form and style at a more advanced level. (Spring)

### **MUCT 315 Form and Analysis** 3 hours

Prerequisite: MUCT 251

A study of musical form, both polyphonic and homophonic, covering the period of common practice and emphasizing the late Baroque and Classical periods. (Fall, even years)

### **MUCT 414 Orchestration and Arranging** 3 hours

Prerequisite: MUCT 251

The technical aspects of and sound qualities of instruments. Arranging for a variety of instrumental groups. (Spring, odd years)

### **MUCT 416 Composition** 3 hours

Prerequisite: MUCT 251

Composing in the smaller forms of music for a variety of vocal and instrumental combinations. (Fall, odd years)

### **MUCT 417 Harmony of the Common Practice Period of the 20th Century** 3 hours

A review of the theory of the period of common practice and a compositional introduction to various 20th century styles. (Spring, even years)

## 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.

# General Studies

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Judy Miles, Advisor

## AIM OF THE DEPARTMENT

The General Studies program at Southwestern Adventist University is designed for students whose main goal is to earn a college degree without specializing in a major or minor field of emphasis. Students will be able to choose from a wide selection of classes and yet meet the requirements of the General Education Program within a liberal arts curriculum. The Associate of Science degree is considered a terminal degree and is available only for students who do not plan to pursue a Bachelor's degree at Southwestern Adventist University.

The Interdisciplinary Studies program allows students, with planning, to enhance their education program by including an area of emphasis not offered on campus.

## PROGRAMS

- A.S. General Studies
- B.S. General Studies
- B.S. Interdisciplinary Studies

### A.S. in General Studies

The A.S. in General Studies requires completion of 64 hours and a minimum GPA of 2.0, with at least 24 hours taken in residence. This degree includes all General Education courses required for a Bachelor's degree, with the following exception: 6 hours of religion instead of 12 will be required.

### B.S. in General Studies

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

- a. Meet the general education, residency and upper division requirements.
- b. Complete one area of emphasis of 30 hours (12 hours upper division) or two areas of emphasis with 18 hours each (6 hours upper division in each emphasis). Areas of emphasis will typically be determined by course prefix.

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

A student who has a specific career goal not included in the list of majors and minors may counsel with the Academic Vice President about a Bachelor of Science degree in Interdisciplinary Studies. Since this is a planned course of study, which may include courses not offered on our campus, approval must be sought and granted before completion of 64 semester hours. The development of this plan is done in consultation with a selected faculty advisor and with one or more selected faculty members from separate academic disciplines who then comprise the faculty committee for the program. A degree proposal must be submitted to the Records Office which includes the following:

- a. A short essay which explains the proposed course of study.
- b. An abstract which can be included with the student's transcript.
- c. 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.
- d. Courses must be grouped by general education, areas of emphasis, and electives under the headings of Courses Completed, Courses In-progress and Proposed Courses.

- e. Upper division courses should be identified with an asterik (\*) and must total a minimum of 40 hours.
- f. All courses taken or planned to be taken off-campus must be identified as such.
- g. Signatures by each faculty member of the committee.

The approved program will become the student's major, and the Registrar will determine the student's readiness for graduation by checking compliance with all components of the degree.

# Geology

Art Chadwick, Chair

## AIMS OF THE GEOLOGY 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

GEOL	111	Physical Geology .....	4
BIOL	111, 112	General Biology .....	8
CHEM	111, 112	General Chemistry .....	8
RLGN		Elective .....	3
MATH	121	Precalculus .....	3
ENGL	121	Freshman Composition .....	3
		Elective .....	3
		TOTAL	32

### SUMMER

GEOL	210	Field Methods in Vertebrate Paleontology ....	4
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### SOPHOMORE YEAR

GEOL	112	Historical Geology .....	4
PHYS	111, 112	General Physics .....	8
ENGL	220	Technical Writing .....	4
PEAC		Elective .....	1
RLGN		Elective .....	3
HIST		Elective .....	3
		Elective .....	9
		TOTAL	32

## 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 210 Field Methods in Vertebrate Paleontology 4 hours

An introduction to the techniques and methods of data collection in vertebrate paleontology. Topics covered include introductions to biostratigraphy, taphonomy, excavation technique, and specimen preservation. Laboratory will include practical experience in excavation of fossil vertebrates. Meets the General Education Laboratory Science requirement and may apply toward a biology major by petition. 3 Lec 3 Lab. Travel fee. (Summer)

# History, Social Science, & Criminal Justice

R. Steven Jones, Chair; Randall R. Butler, Erwin Sicher, Cristina M. Thomsen

Adjunct: Jerry Benjamin, Ted Phillips, Gary Reeves, Keith Harrison

## 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.

In sociology, the student is provided with a better understanding of how societies, communities, and groups are organized and maintained, and how the behavior of the individual is related to that of a group. It also seeks to introduce the student to the concepts and methods used in sociological research.

The Public History and Management degree will introduce students to the skills of applied research, archival and public records work, and historic preservation. In addition to learning the basic themes of history and requirements of historical research, students will learn the basics of business management, organization, and marketing. This package will prepare students to work in fields of applied and public history.

The Criminal Justice Program offers an interdisciplinary major leading to a B.S. degree. The Program provides an appreciation of the full complexity of American criminal justice. The core courses provide a basic understanding of the nature of crime and society's reaction to crime, as well as an in-depth explanation of the various components within the Criminal Justice System.

Southwestern Adventist University and Hill College (a fully accredited community college) have established an agreement to facilitate concurrent enrollment of students at both institutions pursuing a Bachelor of Science degree in Criminal Justice or Security Management. Under the agreement the lower (1000 or 2000) level criminal justice courses which are preparatory to taking the Basic Peace Officer Licensing Examination are offered only by Hill College. These courses are, however, transferable to SWAU and form part of the core requirements for the Criminal Justice major.

The department offers an interdisciplinary Security Management major leading to a B.S. degree. The program involves a comprehensive examination of the role of private security in the United States. The student will learn the relationship between private and public protective services, and the role of private security in all aspects of American society (including hotel/motel and corporate security, security and loss prevention in business, contract security services, private investigations, executive protection, and general crime prevention). In addition, the student will receive an overview of the basic management and operational skills necessary within the private security field. The program prepares students for careers as managers and consultants.

## PROGRAMS

B.A. History

B.A. History -- Secondary Certification

B.A. Public History and Management

B.A. Social Science

B.S. Social Science

B.S. Social Studies -- Secondary Certification

B.S. Criminal Justice

B.S. Security Management

Minors in History, Sociology, Social Science, Political Science and Criminal Justice

## History, B.A.

All B.A. majors in history are required to take 36 semester hours of history (18 hours u.d.) including HIST 111, 112, 211, 212, 305 and nine hours of European history, see note on page 74. One cognate course in political science and an intermediate year of foreign language will be required.

## History Minor

All history minors are required to take 18 semester hours of history (9 hours u.d.) which must include HIST 111, 112 and 211 or 212.

## International Affairs, B.A.

(See Modern Languages section for course listing.)

## Public History and Management, B.A.

A major in Public History and Management will require 48 semester hours. Included are HIST 112, 211, 212, 305, 380, 383, 386, and 460; POLS 211; SOCI 111; BUAD 301, 423; and MKTG 343. Six hours of an intermediate language are also required for this degree.

## Political Science Minor

All political science minors are required to take 18 semester hours of political science (9 hours u.d.) which must include POLS 211.

## Social Science, B.S. or B.A.

A major in social science will require 48 semester hours. Included are 27 semester hours in history (with 12 hours upper division and HIST 111, 112, 211, 212 and HIST 305), 6 hours of political science, 6 hours of geography, 6 hours of economics and 3 hours of social science/history electives. This set of courses does not meet teacher certification requirements. For teacher certification in Social Studies see page 76.

An intermediate language is required for the B.A. degree; no language is required for the B.S. degree.

The B.S. in Social Science is a composite major, therefore no minor is required.

## Social Science Minor

The minor in social science requires 24 semester hours (9 hours u.d.) which must include HIST 112 and 212. The remaining hours must include 6 hours of geography, 6 hours of political science and 6 hours of economics.

## Sociology Minor

All sociology minors are required to take 18 semester hours of sociology (9 hours u.d.) which must include SOCI 111.

# History, Social Science, & Criminal Justice

## TEACHING CERTIFICATION PROGRAM

The following history and social studies majors and minors are for teaching certification only. Requirements for certification are listed in the Education section of the bulletin.

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

### History, B.A. - Secondary Teaching Area

HIST	111, 112	American History .....	6
HIST	211, 212	History of Western Civilization .....	6
HIST	305	Historical Methods: Research & Historiography .....	3
HIST	*	Electives (including 9 hrs. European History) .....	21
		TOTAL (21 hrs. must be u.d.)	36

### History Minor - Secondary Teaching Area

#### Option II

HIST	111, 112	American History .....	6
HIST	211, 212	History of Western Civilization .....	6
HIST	*	Electives (including 9 hrs. European History) .....	12
		TOTAL (12 hrs. must be u.d.)	24

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

#### Option IV

HIST	111, 112	American History .....	6
HIST	211, 212	History of Western Civilization .....	6
HIST	*	European History (as specified below) .....	9
HIST	305	Historical Methods: Research & Historiography .....	3
HIST	415	Texas and the West .....	3
HIST		Electives (u.d.) .....	6
POLS		Electives .....	6
ECON		Electives .....	6
GEOG		Electives .....	6
		TOTAL	51

\*The following are European History courses:

HIST	331	History of Christianity .....	3
HIST	364	Ancient Culture .....	3
HIST	414	Europe from 1250-1789 .....	3
HIST	424	Europe from 1789 to the Present .....	3

## Security Management, B.S.

No minor is required.

### Hill College Courses\*

CJSA	1302	Private Security Officer Course .....	3
CJSA	1312	Crime in America .....	3
CJSA	1322	Introduction to Criminal Justice .....	3
CJSA	1327	Fundamentals of Criminal Law .....	3
CJSA	1342	Criminal Investigation .....	3
CJSA	1348	Ethics in Criminal Justice .....	3
CJSA	1371	Introduction to Security .....	3
CJSA	1372	Emergency Planning .....	3
CJSA	1373	Personal Protection Agent Course .....	3
CJSA	2300	Legal Aspects of Law Enforcement .....	3
CJSA	2371	Security Management .....	3
CJSA	2372	Methods of Security .....	3
CJSA	2373	Private Investigations .....	3
CJSA	2374	Security of Computer Data .....	3
CJSA/ACCT		Elective .....	3
CJSA/ACCT		Elective .....	3
SIRT	1447	Industrial Fire Protection .....	4

### SWAU Courses:

CJSM	332	Constitutional Rights of the Accused .....	3
CJSM	336	Law for Security Personnel .....	3
CJSM	350	Corporate and White Collar Crime .....	3
CJSM	420	Security and Loss Prevention .....	3
CJSM	430	Ethics in Criminal Justice .....	3
CJSM	434	Criminal Justice Administration and Management .....	3
			70

### Required cognates:

BUAD	301	Principles of Management .....	3
BUAD	423	Organizational Behavior OR	
BUAD	372	Human Resource Mngt .....	3
CSIS	301	Issues & Practices in Information Security .....	3
PSYC	445	Deviant Behavior or	
PSYC	340	Abnormal Psychology .....	3
SOCI	331	Strength in Diversity .....	3
COMM	441	Corporate Communication .....	3

\* These 17 courses are offered only by Hill College.



# History, Social Science, & Criminal Justice

## Criminal Justice, B.S.

No minor is required.

### Hill College Courses:\*

CRIJ 1301	Introduction to Criminal Justice.....	3
CRIJ 1306	Courts Systems and Practices .....	3
CRIJ 1307	Crime in America.....	3
CRIJ 1310	Fundamentals of Criminal Law .....	3
CRIJ 2314	Criminal Investigation .....	3
CRIJ 2323	Legal Aspects of Law Enforcement .....	3
CRIJ 2328	Police Systems and Practices .....	3

### SWAU Courses:

CJLE 325	Criminology Theory .....	3
CJLE 331	Correctional Systems and Practices .....	3
CJLE 332	Constitutional Rights of the Accused .....	3
CJLE 334	Criminal Law and Justice .....	3
CJLE 430	Ethics in Criminal Justice .....	3
CJLE 434	Criminal Justice Administration and Management .....	3
CJLE 436	Internship .....	3

SOCI 460	Applied Social Research Methods.....	3
CJLE or CJSM	upper division electives.....	3
		48

### Required cognates:

SOCI	electives (3 hours upper division) .....	6
PSYC	electives (6 hours upper division) .....	9
MATH 241**	Intro to Probability & Statistics .....	3

Recommended electives include BUAD 301, BUAD 372, PSYC 340, PSYC 435, PSYC 445, SOCI 222, SOCI 331, SOCI 334, SOCI 440, SOWK 240, SOWK 331, POLS 211, and POLS 364. (POLS 211 is required if you want to be a Peace Officer in Texas.)

\*These seven courses are offered only by Hill College.

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

## Criminal Justice Minor

All criminal justice minors are required to take 18 semester hours of criminal justice (9 hours u.d.) which must include CJLE 325.

## 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/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 205 Advanced Western Civilization, 1648-Present 3 hours

This course covers the revolutionary transformation of Western Civilization from the seventeenth century to the present including the scientific, industrial and political revolutions, communism, imperialism, and world wars as well as the major intellectual and cultural developments. The class satisfies general education requirements for history. It is required for history/social science majors. Students taking this course should not take HIST 212, History of Western Civilization. (Fall)

### HIST 211 History of Western Civilization 3 hours

A study of Near Eastern and Western man's past from the earliest time to 1648. 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. (Spring)

### HIST 212 History of Western Civilization 3 hours

The course of European history from the Peace of Westphalia 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. (Fall)

### 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. (Offered periodically)

### 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 305 Historical Methods: Research & Historiography 3 hours

Introduction to the discipline of history, with special emphasis on writing, research, and the various schools of historical thought. This course meets the upper division writing component for senior year English. (Spring, even years)

### HIST 325 From Discovery to Revolution, 1492-1783 3 hours

A study of America from the age of European discovery and exploration through the Revolutionary War. Emphasizes the political, social and economic trends culminating in the fight for independence. (Fall, every other odd year; rotates with POLS 320.)

# History, Social Science, & Criminal Justice

## **HIST 331, 332 History of Christianity 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. This course meets the upper division writing component for senior year English. (Also taught as RLG 331, 332). (HIST 331 - Fall; HIST 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. (Spring every other odd year.)

## **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 meets the upper division writing component for senior year English. (Spring, odd year)

## **HIST 355 American Empire and Industry, 1865-1933 3 hours**

American history from Reconstruction, the Gilded Age, the spread of social movements, the rise of Imperialism, and World War I through the Roaring Twenties. (Spring, every other odd year; rotates with POLS 420.)

## **HIST 364 Ancient Culture 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. (Every third Fall; rotates with HIST 414 and 424.)

## **HIST 365 Global Power: America from 1939 - Present 3 hours**

A study of the American rise to global power. This class will focus on World War II, the Cold War, the Era of Civil Rights, Vietnam, Watergate, and the post-Cold War era. This course satisfies the upper division writing component for senior year English. (Spring, even year)

## **HIST 380 Archives Administration 3 hours**

Students will learn the theory and practice of archival administration, records management, and preservation administration. The curriculum includes issues associated with acquisition, organization, description, accessibility and use of materials commonly housed in archives, historical societies, museum, and libraries. (Fall, even year)

## **HIST 383 Preservation Management 3 hours**

This class is a basic foundation in theoretical, managerial, analytical, and practical applications of preservation. Students will be introduced to the preservation and conservation of archive, historical society, museum, and library collections as well as the general concepts and goals of preserving historic buildings and properties. (Spring, every other odd year; rotates with HIST 335.)

## **HIST 386 Public Records 3 hours**

This class provides an introduction to the essentials of records and knowledge management in diverse organizational settings. Students will be introduced to the theoretical principles, methodologies, and practical administration of archives, records, and other information sources from print to oral contributing to the management of knowledge necessary for organizations and society.

## **HIST 414 Europe from 1250-1789: Prologue to Modernity 3 hours**

A survey of the Renaissance, Reformation, counter-Reformation, Absolutism, competition for empire, the Scientific Revolution, the Enlightenment, and the coming of Revolutions. (Every third Fall; rotates with HIST 364 and 424.)

## **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 meets the upper division writing component for senior year English. (Fall, even year)

## **HIST 424 Europe from 1789 to the Present: the Age of Controversy and Conflict 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. This course meets the upper division writing component for senior year English. (Every third Fall; rotates with HIST 364 and 414.)

## **HIST 460 Applied Social Research Methods I 3 hours**

This course serves as an introduction to research methods and their application to social work and the related disciplines of criminal justice/law enforcement, applied history management and psychology. Emphasis is on understanding the basic terminology and principles of research, exploring the foundations of epistemology and empirical practice, and the successful integration of research theory with individual, group, and community practice. Students will be introduced to descriptive and inferential data analysis utilizing the most current version of SPSS data analysis computer software. Students will also be introduced to the use of single subject design as it relates to the evaluation of social work and related interventions. (Also taught as CJLE, PETH, PSYC, SOCI or SOWK 460.) (Fall)

## **HIST 471 Internship 3 hours**

Prerequisite: Junior or senior status, minimum cumulative GPA of 2.50 in the major, and permission of the History Department chair.

This course is a supervised internship in some aspect of cultural resources administration or historic preservation, historic administration or heritage interpretation that is of mutual interest to the qualified student and the place the student will work. This experience is designed to integrate academic training with practical application. A total of 135 hours is required.

## **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.

# History, Social Science, & Criminal Justice

## 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 310 American Political Institutions 3 hours**

A study of the development, influence, and evolution of the American presidency, Congress, and Supreme Court as the three components of the United States governmental structure. (Fall, odd years)

### **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.** (Fall, every other odd year; rotates with HIST 325.)

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

### **POLS 410 American Political Process 3 hours**

An examination of the organization, history, and activities of political parties and interest groups, with emphasis on the functions they serve in national, state and local politics in the United States. (Spring, even years)

### **POLS 420 Modern Political Theory 3 hours**

Details developments in western political theory from the Renaissance to the present. Students will learn about major political philosophies, including Classical Liberalism, Democracy, and Marxism, and major political philosophers from Machiavelli to Mill. **This course meets the upper division writing component for senior year English.** (Spring, every other odd year; rotates with HIST 355)

### **POLS 491 Selected Topics 1-3 hours**

Prerequisite: Approval of department chair.

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

## GEOGRAPHY COURSES

### **GEOG 291 Selected Topics 1-3 hours**

Prerequisite: Approval of department chair.

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

### **GEOG 311 Regional Geography 3 hours**

The relationship of geographic factors to current political and economic issues in the major regions of the world with particular emphasis on various countries within each culture region. Exercises and map work. (Spring)

### **GEOG 411 Physical Geography 3 hours**

Study of the physical environment, including earth-sun relations, weather and climate, soils, vegetation and landforms; interrelationships, distribution, and distributional controls. Exercises and map work. (Fall)

## SOCIOLOGY COURSES

### **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)

### **SOCI 222 Problems of Modern Society 3 hours**

Society is faced with seemingly insurmountable problems, such as poverty, crime, drugs, population problems, environmental pollution, family problems, racial discrimination, social and economic discrimination, and inequality. These problems — their causes and possible methods of dealing with them — will be the focus of this course. (Offered periodically).

### **SOCI 291 Selected Topics 1-3 hours**

Prerequisite: Approval of department chair.

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

### **SOCI 331 Strength in Diversity 3 hours**

A study of racial and ethnic groups in American society featuring an examination of their history, cultural heritage, contributions, struggles, and hopes for the future. Emphasis will be placed on a strengths-based analysis of diverse groups. (May also be taken as SOWK 331.) (Spring)

### **SOCI 334 Juvenile Delinquency 3 hours**

The delinquent as a person and delinquency as a social phenomenon, theories of delinquency, the law and the juvenile justice system, the methods of correctional treatment, and prevention programs. (Spring, odd years)

# History, Social Science, & Criminal Justice

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## **SOCI 410 Urban Development 3 hours**

Review and analysis of recent research on urban areas, including their social organization, culture and subcultures, institution, and contemporary problems. (Offered periodically)

## **SOCI 440 Domestic Violence and Abuse 3 hours**

An exploration of the incidence, scope, and contributing factors in domestic violence. Various perspectives (feminist, psychological, sociological, historical and legal) are examined. Topical issues include patriarchy, marital rape, domestic assault, and child sexual abuse. Coverage includes theories of violence, alternatives to violent interactions, and criminal justice systems response. (Spring, even years)

## **SOCI 460 Applied Social Research Methods 3 hours**

Prerequisite: MATH 241.

An introduction to applied research methods and their applications to the disciplines of Social Work, Criminal Justice and Law Enforcement, Psychology, and Sociology. 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 meets the upper division writing component for senior year English.** (Also taught as CJLE, HIST, PETH, PSYC, or SOWK 460.) (Fall)

## **SOCI 491 Selected Topics 1-3 hours**

Prerequisite: Approval of department chair.

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

Randall Butler, Program Director

## **SECURITY MANAGEMENT COURSES**

### **CJSM 332 Constitutional Rights of the Accused 3 hours**

A study of white collar, corporate, and occupational crime from a historical, sociological, and legal perspective. An examination of the causes, cost, extent, history, law, and social impact of these crimes. (Fall)

### **CJSM 336 Law and Security Personnel 3 hours**

A study of the law of arrest, search, and seizure applications in the private sector. Analysis of civil and criminal liability of security personnel. Regulation and licensing are also analyzed. Comparison of public and private law enforcement. (Fall)

### **CJSM 350 Corporate and White Collar Crime 3 hours**

A study of white collar, corporate, and occupational crime from a historical, sociological, and legal perspective. An examination of the causes, cost, extent, history, law, and social impact of these crimes. (Spring, odd years)

### **CJSM 420 Security and Loss Prevention 3 hours**

Management of asset protection and loss prevention programs in business, industry, and government. Emphasis on the methods and techniques, including risk analysis, security surveys, and audits to prevent and reduce losses due to theft and casualty. (Spring)

### **CJSM 430 Ethics in Criminal Justice 3 hours**

Focus on ethical decisions and dilemmas with an emphasis on the application of ethical theory to problems confronting criminal justice. Critical analysis of traditional and recent theories of justice, rights, responsibilities, punishments, freedom, equality, goodness, duty, happiness, and other key concepts. (Fall, odd years)

### **CJSM 434 Criminal Justice Administration and Management 3 hours**

Management philosophies for administration of criminal justice agencies; focus on organizational behavior, theories of management, planning and budgeting, administrative legal issues, and administrative problems unique to the criminal justice systems. (Spring)

### **CJSM 491 Selected Topics 1-2 hours**

Prerequisite: Approval of Criminal Justice program director.

An individualized approach to guided reading and critical evaluation. Content and method of study must be arranged prior to registration. May be repeated for a total of 2 credits.



# History, Social Science, & Criminal Justice

Randall Butler, Program Director

## CRIMINAL JUSTICE COURSES

### **CJLE 325 Criminology Theory 3 hours**

Prerequisite: SOCI 111 or permission of instructor.

An overview of the major causal theories of criminal behavior and examination of the social, political, economic, and intellectual milieu within which each arose. Beginning with early 18th century theories, the course focuses on the sociological constructs of criminality. (Fall)

### **CJLE 331 Correctional Systems and Practices 3 hours**

Prerequisite: SOCI 111 or permission of instructor.

The role of corrections in the criminal justice system. History, development and functions of correctional practices with emphasis on institutional operations, community-based corrections, rehabilitation and treatment, and the impact of incarceration on inmates. (Spring)

### **CJLE 332 Constitutional Rights of the Accused 3 hours**

In-depth study of processes of the criminal justice system governed by guarantees and protections of the U.S. and state constitutions, with emphasis on recent developments. (Fall)

### **CJLE 334 Criminal Law and Justice 3 hours**

An intensive study of the role of criminal laws in the democratic society. Inquiry is focused on the relationship between the accused and the actors in the criminal justice system. (Spring)

### **CJLE 350 Corporate and White Collar Crime 3 hours**

A study of white collar, corporate, and occupational crime from a historical, sociological, and legal perspective. An examination of the causes, cost, extent, history, law, and social impact of these crimes. (Spring, odd years)

### **CJLE 385 Studies in Criminal Justice 3-6 hours**

Examines selected topics or contemporary issues in crime and criminal justice. May be repeated once for credit when course topics differ. (Spring, every other even year; rotates with POLS 410.)

### **CJLE 430 Ethics in Criminal Justice 3 hours**

Focus on ethical decisions and dilemmas with an emphasis on the application of ethical theory to problems confronting criminal justice. Critical analysis of traditional and recent theories of justice, rights, responsibilities, punishments, freedom, equality, goodness, duty, happiness, and other key concepts. (Fall, odd years)

### **CJLE 434 Criminal Justice Administration and Management 3 hours**

Management philosophies for administration of criminal justice agencies; focus on organizational behavior, theories of management, planning and budgeting, administrative legal issues, and administrative problems unique to the criminal justice system. (Spring)

### **CJLE 436 Internship 3 hours**

Prerequisite: Junior or Senior status, a minimum cumulative grade point average of 2.50 in the major, and permission of Criminal Justice program director.

This course is designed to provide the student with an opportunity to apply academic training in practical situations, and broaden their knowledge of work environments and criteria through course study. A total of 120 hours is required at a University approved site suitable to the student's goals, abilities, chosen discipline, and interests. Students cannot use their regular place of employment as the agency setting for their internship. In addition to supervised field placement, the internship requires regular classroom attendance. (Spring)

### **CJLE 460 Applied Social Research Methods 3 hours**

Prerequisite: MATH 241.

An introduction to applied research methods and their applications to the disciplines of Social Work, Criminal Justice and Law Enforcement, Psychology, and Sociology. 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 meets the upper division writing component for senior year English.** (Also taught as HIST, PETH, PSYC, SOCI or SOWK 460.) (Fall)

### **CJLE 491 Selected Topics 1-2 hours**

Prerequisite: Approval of Criminal Justice program director.

An individualized approach to guided reading and critical evaluation. Content and method of study must be arranged prior to registration. May be repeated for a total of 2 credits.



# Honors Program

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Renard Doneskey, Director

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 3.4 or an SAT score of at least 1050 (or an ACT score of 24 plus) are invited to apply for admission to the Honors Program. Currently enrolled SWAU students and transfer students with a GPA of at least 3.4 on all their college courses may apply for admission to the Honors Program. Upon acceptance into the Honors Program a student will be designated an Honors Student. In order to remain in the Honors Program as an Honors Student, a student must maintain an overall GPA of at least 3.4.

## Requirements and Procedures

In order to earn the designation Honors Graduate upon completing a bachelor's degree, an Honors Student must fulfill the following requirements:

- A. File an application form with the Honors Committee.
- B. Complete 9 units from the following:  
HNRS 104, HNRS 204 or 205, HNRS 304, HNRS 404
- C. Complete 3 units of HNRS 250 and/or 450.
- D. Complete 3 units of HNRS 480.
- E. Complete 1 unit of HNRS 481
- F. 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, Spring)

### HNRS 204 Advanced American History **3 Hours** **1966-Present**

This course provides a detailed study of American history from Reconstruction to the present, charting the United States' rise from a frontier nation to a world power. The course covers the turbulent days of post-Civil War Reconstruction and the settlement of the west, booming industrialism, Populism and Progressivism, the United States in World Wars I & II, the Cold War, and the distrust of the post-Watergate era. Students will become acquainted with trends in American historiography and practice the skills of historical interpretation and writing. 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. (Fall, even years)

### HNRS 205 Advanced Western Civilization, **3 hours** **1648-Present**

This course covers the revolutionary transformation of Western Civilization from the seventeenth century to the present including the scientific, industrial and political revolutions, communism, imperialism, and world wars as well as the major intellectual and cultural developments. The class satisfies general education requirements for history. It is required for history/social science majors. Students taking this course should not take HIST 212, History of Western Civilization. (Fall, odd years)

### HNRS 250, 450 Honors Seminar **1 hour**

Prerequisite: Permission of the Honors Committee.

Courses specifically designed for the Honors Program covering a wide range of interests. Topic for the semester chosen by the faculty member in charge. (Fall, Spring)

### HNRS 304 Discovering the Universe **3 hours**

This course presents a study of modern and historical astronomy, what we know about the universe and how we know it. Topics include planets and the solar system, stellar evolution, galaxies and cosmology. The class satisfies general education requirements for a lab science. Students taking this course should not take PHYS 112, Introductory Astronomy. 2 hours lecture, 3 hours lab. (Fall, Spring)

### 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. (Fall, Spring)

### HNRS 480 Honors Thesis **1-3 hours**

Prerequisite: Permission of the Honors Committee and an acceptable thesis proposal.

The student will work with a faculty advisor on a scholarly work of mutual interest. This course is open to Honors Students only. The course may be repeated for a total of 5 hours; 3 hours are required for Honors graduation. (Fall, Spring)

### HNRS 481 Honors Thesis Forum **1 hour**

Co-requisite: HNRS 480.

The student will submit the Honors thesis in publishable form and present it in an open forum. (Fall, Spring)

# Mathematics

Karl Konrad, Chair; Watson L. Chin, Murray Cox

## 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. Fourth, we aim to train students with marketable skills in biostatistics for the competitive job market in our technological society.

## PROGRAMS

- B.A. Mathematics - 30 hours (18 u.d.)
- B.S. Mathematics - 36 hours (24 u.d.)
- B.S. Mathematical Physics - 52 hours (30 u.d.)
- Minor in Mathematics - 18 hours (6 u.d.)
- Teaching Areas - Secondary Certification

### Mathematics, B.A.

MATH	181	Calculus I .....	4
MATH	282	Calculus II .....	4
MATH	283	Calculus III .....	4
MATH	321	Differential Equations .....	3
MATH	341	Geometry .....	3
MATH	361	Introduction to Linear Algebra .....	3
MATH	431	Modern Algebra .....	3
MATH	471	Advanced Calculus .....	3
MATH		Electives (upper division) .....	3
		<b>TOTAL</b>	<b>30</b>

### Mathematics, B.S.

MATH	181	Calculus I .....	4
MATH	282	Calculus II .....	4
MATH	283	Calculus III .....	4
MATH	321	Differential Equations .....	3
MATH	341	Geometry .....	3
MATH	361	Introduction to Linear Algebra .....	3
MATH	411	Numerical Analysis .....	3
MATH	431	Modern Algebra .....	3
MATH	451	Statistical Analysis .....	3
MATH	471	Advanced Calculus .....	3
MATH		Electives (upper division) .....	3
		<b>TOTAL</b>	<b>36</b>

Required cognate: CSIS 110 or equivalent.

### Mathematics Minor

MATH	181	Calculus I .....	4
MATH	282	Calculus II .....	4
MATH	283	Calculus III .....	4
MATH		Electives (upper division) .....	6
		<b>TOTAL</b>	<b>18</b>

### Mathematical Physics, B.S.

MATH	181	Calculus I .....	4
MATH	282	Calculus II .....	4
MATH	283	Calculus III .....	4
MATH	321	Differential Equations .....	3
MATH	361	Introduction to Linear Algebra .....	3
MATH	381	Complex Variables .....	3
MATH	411	Numerical Analysis .....	3
MATH	431	Modern Algebra or	
MATH	451	Statistical Analysis .....	3
MATH	471	Advanced Calculus .....	3
PHYS	121	General Physics .....	4
PHYS	122	General Physics .....	4
PHYS	221	General Physics with Calculus .....	1
PHYS	222	General Physics with Calculus .....	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>52</b>

# Mathematics

## TEACHING CERTIFICATION PROGRAM

The following mathematics 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.

### Mathematics, B.S. - Secondary Teaching Area

MATH	181	Calculus I .....	4
MATH	241	Intro to Probability & 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	411	Numerical Analysis .....	3
MATH	431	Modern Algebra .....	3
MATH	451	Statistical Analysis .....	3
Choose one from the following:			
MATH	381	Complex Variables (3)	
MATH	471	Advanced Calculus (3) .....	3
TOTAL			36

### Mathematics Minor - Secondary Teaching Area

#### Option II

MATH	121	Precalculus .....	3
MATH	181	Calculus I .....	4
MATH	241	Intro to Probability & Statistics .....	3
MATH	282	Calculus II .....	4
MATH	341	Geometry .....	3
MATH	361	Introduction to Linear Algebra .....	3
Choose two from the following:			
MATH	381	Complex Variables (3)	
MATH	431	Modern Algebra (3)	
MATH	451	Statistical Analysis (3) .....	6
TOTAL			26

## MATHEMATICS PLACEMENT TEST (MPT)

All students who have not completed their math requirement before beginning their studies at SWAU will take a math placement test to determine math class placement. The scoring system is as follows:

Score	Allows entrance into
1	MATH011
2	MATH012
3	MATH101
4	MATH101, 110, or 241
5	MATH101, 110, 121, or 241

## COURSES

### MATH 011 Introduction to Algebra 3 hours

The course reviews algebra of the real number system, concepts of elementary set theory, rules of exponents with integer exponents, roots of real numbers, arithmetic of rational numbers and rational expressions, factorizing whole numbers into prime factors, factoring polynomials in one variable with integer coefficients into irreducible factors relative to the set of integers, solve linear equations and linear inequalities, solve applied problems which can be modeled by linear equations or linear inequalities.

A student must take this course if he or she needs a review of elementary algebra, or scored a 1 on the MPT. Each class meets five times a week with the instructor. *This course does not apply toward general education or graduation requirements.* (Fall, Spring)

### MATH 012 Intermediate Algebra 3 hours

Prerequisite: Grade of C or higher in MATH 011 or MPT score of 2.

The course reviews algebra of the real number system, rules of exponents with rational exponents, factoring polynomials in one variable with integer coefficients into irreducible factors relative to the set of integers, solve linear and quadratic equations and inequalities, graph functions, solve applied problems which can be modeled by linear or quadratic equations or linear inequalities.

A student must take this course if he or she needs a review of algebra, or scored 2 on the math placement test. Each class meets five times a week with the instructor. *This course does not apply toward general education or graduation requirements.* (Fall, Spring)

### MATH 101 Mathematics for Liberal Arts 3 hours

Prerequisite: MPT score of 3 or higher or at least a C in MATH 012.

Introduction to sets, Venn diagrams, truth tables, applications of Venn diagrams to logic, logical arguments, probability, sample spaces, permutations, combinations, statistics, averages, normal distributions, the metric system, measurement, consumer interest, and loans. (Fall)

### MATH 110 College Algebra 3 hours

Prerequisite: MPT score of 4 or higher or at least a C in MATH 012.

College Algebra is a study of equations, inequalities, certain classes of functions (polynomial, rational, exponential, and logarithmic), and their graphs and systems of equations. (Fall, Spring)

### MATH 121 Precalculus 3 hours

Prerequisite: MPT score of 5 or MATH 110.

A study of polynomials, rational, exponential, logarithmic, and trigonometric functions and their graphs and conic sections. (Fall)

### MATH 181 Calculus I 4 hours

Prerequisite MATH 121 or its equivalent.

A study of algebraic and transcendental function of one variable, limits, continuity, differentiation, and integration, and application of integrals. Writing assignments are an essential part of the course. (Spring)

# Mathematics

**MATH 236 Applied Mathematics for Business 3 hours**

Prerequisite: MATH 110 or 121.

The study of mathematical tools necessary to make effective business decisions. Areas of study include: linear equations, linear programming, probabilities, optimization, and functions. (Spring)

**MATH 241 Intro. to Probability & Statistics 3 hours**

Prerequisite: MPT score of 4 or higher or MATH 110.

This course introduces elementary probability, statistical inference, and applications to business and science. (Fall, Spring)

**MATH 282 Calculus II 4 hours**

Prerequisite: MATH 181.

A study of transcendental functions and differential equations, techniques of integration, infinite series, and vectors in two-dimensions and polar coordinates. Writing assignments are an essential part of the course. (Fall)

**MATH 283 Calculus III 4 hours**

Prerequisite: MATH 282.

A study of the calculus of several variables, vectors and motion in space, derivatives and integration of functions of several variables. Writing assignments are an essential part of the course. (Spring)

**MATH 291 Selected Topics 1 hour**

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 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. (Offered periodically)

**MATH 341 Geometry 3 hours**

Prerequisite: MATH 282.

This course is a study of Euclidean and non-Euclidean geometry. Two research papers are required for the course. Possible subjects for papers are: proofs of a theorem outside of the class, history of geometry, biographies of somebody who made geometry, etc. This course meets the upper division writing component for senior year English. (Offered periodically)

**MATH 361 Introduction to Linear Algebra 3 hours**

Prerequisite: MATH 283.

An introduction to vector spaces and matrix theory over the field of real numbers. (Offered periodically)

**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. (Offered periodically)

**MATH 411 Numerical Analysis with Application 3 hours**

Prerequisite: MATH 283, 321; knowledge of some computer programming language.

This is a course in numerical methods for solving mathematical problems. The writing of computer programs for solving problems is a part of the course. (Offered periodically)

**MATH 431 Modern Algebra 3 hours**

Prerequisite: MATH 361.

A study of the abstract systems: groups, rings, fields, and integral domains. (Offered periodically)

**MATH 451 Statistical Analysis 3 hours**

Prerequisite: MATH 282.

A study of the basic ideas of probability theory, discrete and continuous random variables, and their distributions, with application to statistics. (Offered periodically)

**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. (Offered periodically)

**MATH 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 3 credits.

# Medical Technology

Art Chadwick, Chair; Dan Petr, Coordinator

## AIMS OF THE PROGRAM

The Medical Technology program prepares students to be certified clinical laboratory technologists in hospitals and other clinical laboratory settings.

## PROGRAM

Southwestern Adventist University offers a Bachelor of Science degree (128-134 semester hours) in medical technology. This degree is offered in affiliation with (a) Tarleton State University in Fort Worth, Texas; (b) Andrews University in Berrien Springs, Michigan; (c) Florida Hospital, Orlando, Florida. The first three years are completed at the SWAU campus. The fourth year (12 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. Andrews University and Florida Hospital classes start in August. The program is accredited by the Council on Allied Health Education and Accreditation in conjunction with the National Accrediting Agency for Clinical Laboratory Sciences.

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

## Medical Technology, B.S.

BIOL	111, 112	General Biology or	
BIOL	101, 102	Anatomy and Physiology .....	8
BIOL	220	Microbiology .....	4
BIOL	320	Genetics .....	4
MATH	121	Precalculus .....	3
CHEM	111, 112	General Chemistry .....	8
CHEM	331, 332	Organic Chemistry .....	8
CHEM	451	Biochemistry .....	3
CSIS		Computer Elective .....	3
		TOTAL	41
		Clinical training (see page 85) .....	42-48

## Recommended Courses for Medical Technology

PHYS	121, 122	Physics .....	8
CHEM	221	Modern Analytical Chemistry .....	4

## Suggested Curriculum for Medical Technology Majors

### FRESHMAN YEAR

<b>Fall</b>			
COLL	101	Freshman Success .....	1
BIOL	111	General Biology .....	4
MATH	121	Precalculus .....	3
ENGL	121	Freshman Composition .....	3
CHEM	111	General Chemistry .....	4
		TOTAL	15

### Spring

BIOL	112	General Biology .....	4
RLGN		Religion Elective .....	3
HIST		History Elective .....	3
CHEM	112	General Chemistry .....	4
		TOTAL	14

### SOPHOMORE YEAR

#### Fall

BIOL	220	Microbiology .....	4
ENGL	220	Technical Writing & Research .....	3
CHEM	331	Organic Chemistry .....	4
HIST		History Elective .....	3
		TOTAL	14

#### Spring

COMM		Speech Elective .....	3
RLGN		Religion Elective .....	3
CHEM	332	Organic Chemistry .....	4
HIST		History or Humanities Elective .....	3
HLED	111	Health Science .....	3
		TOTAL	16

### JUNIOR YEAR

#### Fall

CHEM	451	Biochemistry .....	3
RLGN		Religion Elective .....	3
HIST		History or Humanities Elective .....	3
ENGL		Literature Elective .....	3
CHEM	221	Modern Analytical Chemistry or	
PHYS	121	General Physics .....	4
		TOTAL	16

#### Spring

BIOL	320	Genetics .....	4
CSIS		Computer Elective .....	3
PEAC		P.E. Elective .....	1
RLGN		Religion Elective (upper division) .....	3
		TOTAL	11



# Medical Technology

**SENIOR YEAR** - Clinical training at an affiliated hospital institution.

Courses as listed by the Florida Hospital Program:

MDTC	400	Phlebotomy .....	1
MDTC	401	Principles of Education .....	1
MDTC	402	Laboratory Management .....	1
MDTC	403	Comparative Technical Procedure .....	1
MDTC	410	Body Fluids .....	2
MDTC	411	Body Fluids Practicum .....	1
MDTC	420	Clinical Mycology .....	1
MDTC	421	Clinical Mycology Practicum .....	1
MDTC	430	Clinical Parasitology .....	2
MDTC	431	Clinical Parasitology Practicum .....	1
MDTC	440	Coagulation/Hemostasis .....	2
MDTC	443	Coagulation/Hemostasis Practicum .....	1
MDTC	450	Immunology and Serology .....	2
MDTC	451	Immunology and Serology Practicum .....	1
MDTC	460	Clinical Chemistry .....	4
MDTC	461	Clinical Chemistry Practicum .....	2
MDTC	470	Hematology .....	4
MDTC	471	Hematology Practicum .....	2
MDTC	480	Immunohematology .....	4
MDTC	481	Immunohematology Practicum .....	2
MDTC	490	Clinical Pathogenic Microbiology .....	4
MDTC	491	Clin. Path. Microbiology Practicum .....	2
		TOTAL	42

(Tarleton State University clinical year experience ..... 48)

**TOTAL hours for graduation** **128-134**

# Modern Languages

R. Steven Jones, Chair; Luz Arauzo

## AIMS OF THE DEPARTMENT

The Spanish language and Hispanic culture have rapidly gained importance and influence during the past two decades. More than 400 million people in twenty-five countries speak Spanish, and it has become the second most prevalent language in the United States.

The growing preeminence of Spanish makes it an ideal complement to any liberal arts education. Indeed, Spanish, or another modern language, is a degree component of all B.A. programs at Southwestern Adventist University. Spanish opens doors to both personal and professional development, and it is a working language of many international organizations and corporations. Professionals in many different fields - including business, theology, medicine, international relations, journalism, and education - use Spanish daily.

SWAU strongly encourages students to study a foreign language, and Spanish at Southwestern is a great investment in a promising future.

## PROGRAMS

- B.A. International Affairs
- B.A. Interdisciplinary Studies in French
- B.A. Interdisciplinary Studies in German
- B.A. Interdisciplinary Studies in Italian
- B.A. Interdisciplinary Studies in Spanish
- Minor in Spanish

## Bachelor of Arts in International Affairs

SWAU's International Affairs major is dedicated to educating students on global issues and preparing them for service in the multicultural and international arena. The major combines perspectives from many academic fields into a multidisciplinary awareness of cross-border relations.

The major is administered by the Social Science/Modern Languages Department and draws most of its courses from different liberal arts departments. It requires students to take more social science, history, and foreign language courses than the general liberal arts graduate.

Students receive a thorough liberal arts education, not vocational training for a specific career in International Affairs. It provides students with communication and critical-thinking skills which they can apply to a wide variety of careers, including those in International Affairs.

These courses provide a basis for further studies or work-related training in many international careers, including foreign service, international law, international education, governmental and non-governmental organizations, and in international business.

## International Affairs, B.A.

ECON	211	Economics I .....	3
ECON	212	Economics II .....	3
GEOG	311	Regional Geography .....	3
HIST	365	Global Power: America from 1933-Present .....	3
HIST	414	Europe from 1250-1789 <i>or</i>	
HIST	212	History of Western Civilization II .....	3
HIST	424	Europe from 1789 to the Present .....	3
POLS	211	National & Texas Constitutions .....	3
POLS	320	American International Relations .....	3
POLS	364	American Constitutional Development .....	3
SOCI	222	Problems of Modern Society <i>or</i>	
SOCI	111	Introduction to Sociology <i>or</i>	
SOCI	331	Strength in Diversity .....	3
SPAN	317	Spanish American Civilizations .....	3
		TOTAL	33

Required minor in a foreign language: 18 hours.

## Bachelor of Arts with emphasis in French

Requires college intermediate level French proficiency prior to, one year study abroad at Collonges-Sous-Saleve, France, and enrollment in Interdisciplinary Studies (see page 73).

## Bachelor of Arts with emphasis in German

Requires college intermediate level German proficiency prior to, one year study abroad at Seminar Schloss Bogenhofen, Austria, and enrollment in Interdisciplinary Studies (see page 73).

## Bachelor of Arts with emphasis in Spanish

Requires college intermediate level Spanish proficiency or SPAN 211 and 212 prior to one year study abroad at Colegio Adventista de Sagunto, Spain or Universidad Adventista del Plata, Argentina, and enrollment in Interdisciplinary Studies (see page 73).

## Spanish Minor

A minor consists of 18 hours, exclusive of the elementary course or its equivalent, 12 hours of which must be upper division and includes 3 hours of literary analysis.

## ADVENTIST COLLEGES ABROAD

The Modern Languages 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. SWAU is a member of a consortium known as Adventist Colleges Abroad, and through this consortium the student is able to study languages in the actual homeland of that particular language.

## MEETING THE INTERMEDIATE LANGUAGE REQUIREMENT

Students may meet the requirement for intermediate language by passing a CLEP test at the approved level (see page 26). There is a fee for CLEP testing and recording.

## COURSES

**SPAN 111 Elementary Spanish** **4 hours**

**SPAN 112 Elementary Spanish** **4 hours**

The sound and sentence patterns of Spanish are learned through drills, dialogues, readings and models, both live and recorded. 4 Lec 1 Lab. (SPAN 111 Fall, SPAN 112 Spring)

**SPAN 211 Intermediate Spanish** **3 hours**

**SPAN 212 Intermediate Spanish** **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.

**ALL COURSES NUMBERED ABOVE 300** are conducted in Spanish. The instructor may require a demonstrated ability in the language before granting permission to enroll.

# Modern Languages

**SPAN 311 Spanish Composition and Conversation 3 hours**

Prerequisite: SPAN 212 or demonstrated proficiency.  
The development of confidence in accepted oral and written expression, based on topics of current interest and cultural significance. (Fall)

**SPAN 315 Spanish Civilization and Culture 3 hours**

Prerequisite: SPAN 311 or demonstrated proficiency.  
A presentation of some of the dominant themes, personalities, and creative achievements in Hispanic history, civilization and culture. (Spring, even years)

**SPAN 317 Spanish American Civilization 3 hours**

Prerequisite: SPAN 311 or demonstrated proficiency.  
A presentation of some of the dominant themes, personalities, and creative achievements in Latin-American history, civilization, and culture. (Spring, odd years)

**SPAN 411 Masterpieces of Spanish-American Literature I 3 hours**

Prerequisite: Three years of college Spanish, including SPAN 311, or permission of the instructor.

A presentation of the history of Spanish-American literature from the discovery of America to Romanticism. (Fall, even years)

**SPAN 412 Masterpieces of Spanish-American Literature II 3 hours**

Prerequisite: Three years of college Spanish, including SPAN 311, or permission of instructor.

A presentation of the history of Spanish-American literature from Modernism to contemporary literature. (Spring, odd years)

**SPAN 413 Masterpieces of Spanish Literature I 3 hours**

Prerequisite: Three years of college Spanish, including SPAN 311, or permission of the instructor.

A survey of peninsular Spanish literature with selections from the Middle Ages to Neoclassicism. (Fall, odd years)

**SPAN 414 Masterpieces of Spanish Literature II 3 hours**

Prerequisite: Three years of college Spanish, including SPAN 311, or permission of the instructor.

A survey of peninsular Spanish literature with selections from the Romanticism to contemporary literature. (Spring, even years)

**SPAN 491 Selected Topics 1-3 hours**

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

**ADVENTIST COLLEGES ABROAD**

**COURSES TAUGHT AT SAGUNTO, SPAIN**

SPAN 201, 202, 203	Spanish Folklore .....	2,2,2 qt hrs.
SPAN 251, 252, 253	Intermediate Spanish Grammar .....	4,4,4 qt hrs.
SPAN 261, 262, 263	Intermediate Spanish Composition .....	3,3,3 qt hrs.
SPAN 271, 272, 273	Intermediate Spanish Conversation .....	2,2,2 qt hrs.
SPAN 281, 282, 283	Current Events in Spain .....	1,1,1 qt hr.
SPAN 301, 302, 303	History of Spain .....	3,3,3 qt hrs.
SPAN 312, 313	Spain and Its Culture .....	2,2 qt hrs.
SPAN 331, 332, 333	History of Spanish Literature .....	3,3,3 qt hrs.
SPAN 351, 352, 353	Advanced Spanish Grammar I .....	4,4,4 qt hrs.
SPAN 361, 362, 363	Advanced Spanish Composition .....	3,3,3 qt hrs.
SPAN 371, 372, 373	Advanced Spanish Conversation .....	2,2,2 qt hrs.
SPAN 422, 423	Translation and Interpretation .....	2,2 qt hrs.
SPAN 451, 452, 453	Advanced Spanish Grammar II .....	4, 4, 4 qt hrs.
SPAN 461, 462, 463	Advanced Spanish Composition II .....	3,3,3 qt hrs.
SPAN 471, 472, 473	Advanced Spanish Conversation II .....	2,2,2 qt hrs.
SPAN 495	Independent Study .....	1-4 qt hrs.

**COURSES TAUGHT AT UNIVERSIDAD ADVENTISTA DEL PLATA, ARGENTINA**

SPAN 251, 252, 253	Intermediate Spanish Grammar .....	4,4,4 qt hrs.
SPAN 261, 262, 263	Intermediate Spanish Composition .....	2,2,2 qt hrs.
SPAN 271, 272, 273	Intermediate Spanish Conversation .....	3,2,2 qt hrs.
SPAN 351, 352, 353	Advanced Spanish Grammar .....	4,4,4 qt hrs.
SPAN 361, 362, 363	Advanced Spanish Composition I .....	2,2,2 qt hrs.
SPAN 371, 372, 373	Advanced Spanish Conversation I .....	3,2,2 qt hrs.
SPAN 451, 452, 453	Advanced Spanish Grammar II .....	4,4,4 qt hrs.
SPAN 461, 462, 463	Advanced Spanish Composition II .....	2,2,2 qt hrs.
SPAN 471, 472, 473	Advanced Spanish Conversation II .....	3,2,2 qt hrs.

# Modern Languages

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## COURSES TAUGHT AT

### COLLONGES-SOUS-SALÈVE, FRANCE

FREN 011	Phonetics .....	0 qt hrs.
FREN 101	Beginning French .....	12 qt hrs.
FREN 111	Phonetics .....	1 qt hr.
FREN 151, 152, 153	Elementary Oral Expression .....	3,3,3 qt hrs.
FREN 191	Intensive French Review I .....	12 qt hrs.
FREN 201, 202	Intermediate French .....	9, 5 qt hrs.
FREN 221, 222	Intermediate Composition .....	3, 2 qt hrs.
FREN 251, 252	Intermediate Oral Expression .....	3,3 qt hrs.
FREN 291	Intensive French Review II .....	9 qt hrs.
FREN 321, 322	Advanced Composition .....	3, 2 qt hrs.
FREN 331, 332	Orthography .....	2, 1 qt hrs.
FREN 341	Advanced Grammar .....	6 qt hrs.
FREN 351, 352	Advanced Oral Expression .....	2, 2 qt hrs.
FREN 361, 362	Text Analysis .....	2, 2, qt hrs.
FREN 479	French Culture and Civilization .....	2 qt hrs.
FREN 499	Independent Study .....	1-4 qt hrs.
Advanced Language Study (Upper Division)		
FREN 421	French Composition .....	3 qt hrs.
FREN 431	Advanced Orthography I .....	2 qt hrs.
FREN 432	Advanced Orthography II .....	2 qt hrs.
FREN 441	Morphology/Syntax of the Simple Sentence .....	3 qt hrs.
FREN 442	Morphology/Syntax of the Complex Sentence .....	3 qt hrs.

## COURSES TAUGHT AT

### ISTITUTO ADVENTISTA VILLA AURORA, ITALY

ITLN 151	Elementary Grammas .....	7 qt hrs.
ITLN 171	Elementary Conversation .....	4 qt hrs.
ITLN 212	Italian Culture .....	2 qt hrs.
ITLN 252	Intermediate Grammas .....	5 qt hrs.
ITLN 262	Intermediate Composition .....	2 qt hrs.
ITLN 272	Intermediate Conversation .....	4 qt hrs.
ITLN 353	Advanced Grammas .....	2 qt hrs.
ITLN 363	Advanced Composition .....	2 qt hrs.
ITLN 373	Advanced Conversation .....	4 qt hrs.

## COURSES TAUGHT AT

### SEMINAR SCHLOOS BOGENHOFEN, AUSTRIA

GRMN 101, 102, 103	Beginning German .....	6,6,6 qt.hrs.
GRMN 111, 112, 113	Elementary Grammar .....	3,3,3 qt.hrs.
GRMN 121, 122, 123	Elementary Phonetics .....	1,1,1 qt.hrs.
GRMN 201, 202, 201	Intermediate Oral Expressions .....	3,3,3 qt.hrs.
GRMN 211, 212, 213	Intermediate Written Expression .....	2,2,2 qt.hrs.
GRMN 221, 222, 223	Intermediate Reading Comprehension .....	3,3,3 qt.hrs.
GRMN 231, 232, 233	Intermediate Listening Comprehension .....	2,2,2 qt.hrs.
GRMN 301, 302, 303	Advanced Oral Expression .....	3,3,3 qt.hrs.
GRMN 311, 312, 313	Advanced Written Expression .....	2,2,2 qt.hrs.
GRMN 321, 322, 323	Advanced Reading Comprehension .....	3,3,3 qt.hrs.
GRMN 331, 332, 333	Advanced Listening Comprehension .....	3,3,3 qt.hrs.

Penny Moore, Chair; Lavonne Adams, Jean Alway, Meriam Fabriga, Bonnie Gnad, Tania Lopez, Joyce Melius, Cathy Turner, Lolita Valdez, Eudora Williams

Bob Hadley, Director of Student Health Services

## MISSION STATEMENT

The purpose of the Southwestern Adventist University (SWAU) Department of Nursing is to prepare a generalist in the profession of nursing with a Christian background in 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. The program seeks to meet society's need for health care leaders by providing a nursing foundation, educational and career mobility, and life long learning.

## GOAL

The goal of the nursing program is to graduate competent, employable, safe practitioners who are prepared to participate in the delivery of evidence-based nursing care, who have the knowledge base on which to build advanced study, and who are contributing members of society. The curriculum prepares the student for graduation with an Associate of Science (A.S.) degree. The graduate of the A.S. program is eligible for licensure as a registered nurse (RN). The graduate of the Bachelor of Science (B.S.) completion program has advanced as an RN and is also prepared for graduate school. Differentiated entry level competencies are used to ensure skilled practitioners.

## ACCREDITATION

The program is accredited by the Board of Nurse Examiners for the State of Texas (BNE), and by the National League for Nursing Accrediting Commission (NLNAC). The NLNAC address is: 61 Broadway, New York, New York 10006. Phone number: (212) 363-5555 x 153.

## APPLICATION PROCESS

1. File an application form with SWAU.
2. File a nursing application form with the nursing department. Processing of applications will begin in March. Applications should be received prior to May 31 for consideration of acceptance into the fall semester. A \$100 nonrefundable fee must be paid upon acceptance into the nursing program.
3. Submit all high school and college/university transcripts.
4. Provide three letters of recommendation from employers and/or teachers, which attest to professional competence or scholastic ability, emotional stability and physical health.
5. Provide proof of yearly CPR certification, physical examination, immunizations, and TB testing.
6. An applicant whose first language is not English must have a score of at least 550 on the Test of English as a Foreign Language (TOEFL) or 80th percentile on the University of Michigan English Language Institute Test.
7. Applicants who have taken all their academic courses at SWAU will be given preferential consideration for admission to the nursing program. GPA and date of application are considerations.
8. B.S. students continuing from the SWAU A.S. program are required to complete an application, but are exempt from providing additional reference letters and the \$100 fee.

## ASSOCIATE OF SCIENCE

### Admission Criteria

1. Meet all admission requirements for enrollment at SWAU.
2. Cumulative GPA of at least 2.75 on a 4.0 scale.
3. The following prerequisites are required with a grade of C or better:
  - a. ENGL 121 Freshman Composition
  - b. The following prerequisites must have been taken seven years or less prior to admission to nursing courses:
    - MATH 110 College Algebra\*
    - BIOL 101, 102 Anatomy and Physiology
    - CHEM 101 Introduction to Chemistry\*
    - PSYC 212 General Psychology\* Demonstration of competency through placement testing can be accepted in lieu of course completion.
4. Previous nursing credits must have been earned within the past three years.
5. Proof of current immunizations as required by the State of Texas.
6. Proof of current CPR certification as a Health Care Provider. SWAU Department of Nursing requires an annual update.

## Licensed Vocational Nurse Applicants

The licensed vocational nurse who wishes placement with advanced standing to earn an A.S. degree in nursing must:

1. Be currently licensed as an LVN/LPN.
2. Have at least one year of work experience as an LVN/LPN.
3. Fulfill the admission criteria and prerequisites for the A.S. program.

General education, science, and cognate requirements are met through transfer of credit or completion of courses in residence. Credits for NRSA 115 (5 hours), and NRSA 118 (4 hours) are awarded as credit by exam or by transfer of LVN course work. Upon successful completion of NRSA 110, the advanced placement student may progress into NRSA 225 with the traditional A.S. students. NRSA 110 is offered spring semester only.

## BACHELOR OF SCIENCE

The RN with an A.S. degree or a diploma in nursing may enter the nursing program at SWAU at the junior level and will usually be prepared to graduate with a B.S. degree in two academic years. Students meeting all general education requirements and cognate courses designated for the nursing curriculum may be able to earn the B.S. degree in one academic year. The B.S. in Nursing is also provided through the Adult Degree Program (ADP).

### Admission Criteria

1. Current RN licensure in the state of Texas. (ADP students must hold RN licensure in their state of residence.)
2. A degree/diploma in nursing from an NLNAC accredited program. (Provisional admission may be granted to graduates from non-NLNAC accredited nursing programs.)
3. Graduates of diploma programs must take proficiency examinations to validate college credit for nursing courses. (Must attain 30th percentile on each examination.)
4. A minimum cumulative GPA of 2.5.
5. Eligibility for junior standing at SWAU.
6. Proof of current CPR certification as a Health Care Provider. SWAU Department of Nursing requires an annual update.
7. Proof of current immunizations as required by the State of Texas.



# Nursing

## 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 Nursing Progression Committee. All nursing courses must be completed within five years.

## SPECIAL STUDENT

An applicant who wishes to enroll in nursing courses without pursuing a degree at SWAU should apply for enrollment in SWAU as a special student. Consent for enrollment as a special student is subject to fulfillment of course prerequisites, instructor's consent, and space availability.

To be admitted later as a degree-seeking student, the special student must meet all the prescribed requirements and follow the usual admission procedure.

## PART-TIME STUDENTS

Any qualified student may enroll on a part-time basis. Required general education or cognate courses must be completed no later than the time specified in the full-time degree plan.

## TRANSFER STUDENTS

Students wishing to transfer into the A.S. nursing program are required to have a minimum college GPA of 2.75. A minimum grade point of C (2.0) is required for any course accepted for transfer credit. Course descriptions or outlines will be required when necessary to determine the acceptability of a course or the amount of transfer credit to be granted for clinical nursing courses. Previous nursing credits must have been earned within the past three years. The department reserves the right to require the transfer applicant to pass written and/or practical examinations in any course for which transfer credit is requested. Admission as a transfer student is subject to available space.

## CONTINUATION AND PROGRESSION POLICIES

1. The Department of Nursing reserves the right to require withdrawal of a nursing student from the program or a nursing course who fails to demonstrate competency and/or displays inappropriate/unprofessional behavior. Additional criteria for continuation in the program are consistent with the standards of the BNE.
2. Students must maintain a cumulative GPA of 2.5 in nursing courses to progress in nursing and to graduate. No grade lower than C will be accepted in nursing and nursing cognate courses.\* Students whose nursing GPA falls below 2.5 at any time during the program must raise their nursing GPA to 2.5 or better the following 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 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.
3. All nursing courses are to be completed within a five-year time frame.
4. Students must complete their nursing courses at SWAU unless special permission is granted.
5. Students are allowed only one repeat of a nursing course during their program. Any nursing course that is dropped after mid-semester date on the academic calendar will be treated as a completed nursing course.
6. Students are required to pass dosage calculation tests periodically throughout the program. Failure to achieve a passing score will prevent continuation in nursing courses that semester.

7. Proof of yearly Health Care Provider CPR certification and proof of current immunizations are required of all nursing students.
8. LVN and RN students must provide the nursing department with proof of current Texas unencumbered licensure throughout their program.
9. After acceptance but before the first clinical course all students must submit to and pay for a criminal background check and drug screening as arranged by the Nursing Department.

\*Nursing cognate courses:

AS Nursing:	BS Nursing:
BIOL 101, 102, 220	CHEM 101, 103
CHEM 101**	(CHEM 102 or 104 recommended.)
HLED 216	
MATH 110	
PSYC 212, 311	
SOCI 111	

\*\*or Chemistry competency placement test

## TERMINATION POLICY

The following situations or conditions may result in termination from the nursing program:

1. Unsafe or unethical nursing practice
2. Nursing GPA less than 2.5 following repeat of one nursing course
3. Failure to pass dosage calculation test
4. Failure to pass exit test
5. Dishonesty

## TRANSPORTATION POLICIES

Students are expected to provide their own transportation to and from off-campus clinical labs. Faculty will not provide transportation. Students are advised not to transport clients in their own vehicles under any circumstances. This policy protects both the student and the client. Texas law requires proof of automobile liability insurance.

## RESIDENCY REQUIREMENT

Transfer students must complete a minimum 15 semester hours of nursing courses at SWAU and must fulfill the University residence requirements as stated elsewhere in this bulletin to graduate with an A.S. degree in nursing. The candidate for a B.S. degree in nursing must take 28 semester hours of upper division nursing courses in residence at SWAU and must fulfill the University residency requirements as stated elsewhere in this bulletin.

## GENERAL INFORMATION

Students must meet the requirements of the bulletin in effect at the time of acceptance into the nursing program. Prospective students and pre-nursing students, on and off SWAU campus, must work closely with the Nursing Department to ensure readiness to begin nursing classes.

## GRADUATION REQUIREMENTS

### Associate Degree

1. Satisfactory completion of a minimum of 72 semester hours to include 32 semester hours of nursing and 40 semester hours of general education and cognates for nursing.
2. A minimum nursing GPA of 2.5.
3. Upon successful completion of the exit examination, the faculty will recommend the student as a candidate to write NCLEX-RN examination. Students failing the exit examination twice must show evidence of satisfactory completion of a review course before retaking the examination the third and final time.
4. In compliance with the BNE's policy, completion of the nursing program does not guarantee eligibility for NCLEX-RN. An individual who may be ineligible for licensure due to physical/emotional disabilities or legal encounters regardless of outcome should seek departmental and legal advising and contact the BNE prior to enrolling in any professional nursing program in Texas.

### Baccalaureate Degree

1. Satisfactory completion of 130 semester hours including 65 semester hours of nursing courses and 65 semester hours of general education and cognate courses for nursing. Not fewer than seven hours of the electives must be upper division, of which three must be in religion.
2. Fulfillment of the general education requirements for a BS degree. (Students of nursing fulfill the writing component of the English requirements with NRSB 316, and NRSB 435, and the speech component with NRSB 455.)
3. A minimum nursing GPA of 2.5.
4. Successfully pass the exit examination. Three attempts will be allowed.
5. Recommendation by the faculty for graduation.

## NURSING DEPARTMENT GRIEVANCE POLICY

Nursing students who wish to appeal an academic issue should refer to the SWAU policy on Student Academic Appeals, and should 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 Academic Vice President within one University day following receipt of the Nursing Progression Committee decision to continue the SWAU process for Academic Appeals. This concludes STEP I of the University appeals process.

## ASSOCIATE OF SCIENCE MAJOR REQUIREMENTS

NRSA	115	Fundamentals of Nursing .....	5
NRSA	118	Nursing Across the Life Span .....	8
NRSA	225	Child Health Nursing .....	3
NRSA	235	Mental Health Nursing .....	4
NRSA	236	Parent/Infant Nursing .....	4
NRSA	245	Adult Health Nursing .....	4
NRSA	255	Adult Nursing Role Transition .....	3
NRSA	260	Nursing Seminar .....	1
			32

### Required Cognate Courses:

BIOL	101	Anatomy and Physiology .....	4
BIOL	102	Anatomy and Physiology .....	4
BIOL	220	Microbiology .....	4
HLED	216	Nutrition .....	2
PSYC	212	General Psychology .....	3
PSYC	220	Human Growth and Development .....	3
SOCI	111	Introduction to Sociology .....	3
CHEM	101	(or placement exam)	
MATH	110	(or placement exam)	
			23

### General Education

ENGL	121	Freshman Composition .....	3
ENGL	220	Research and Professional Writing .....	3
CSIS		Computer Elective .....	3
PEAC		P.E. Elective .....	1
RLGN		Religion Electives .....	6
UNIV	101	University Success .....	1
			17

## BACHELOR OF SCIENCE MAJOR REQUIREMENTS

In addition to the Associate of Science curriculum, the Bachelor of Science includes the following requirements:

NRSB	310	Pathophysiology .....	3
NRSB	316	Issues and Trends in Health Care .....	2
NRSB	326	Assessment: Birth to Senescence .....	3
NRSB	350	Community Health Nursing I .....	4
NRSB	375	Critical Care Nursing .....	5
NRSB	435	Management/Leadership .....	3
NRSB	436	Nursing Research .....	3
NRSB	450	Community Health Nursing II .....	4
NRSB	455	Advanced Nursing Seminar/Practicum .....	3
NRSB	491	Selected Topics in Professional Nursing .....	3
			33

### Required Cognate Courses:

CHEM	101	Introduction to Chemistry .....	3
CHEM	103	Introduction to Chemistry .....	3
MATH	241*	Intro. to Probability & Statistics .....	3
			9

(CHEM 102 or 104 Chemistry Lab Recommended.)

\*MATH 110 or a MPT score of 4 or 5 is prerequisite for this class.

### General Education:

ENGL		Literature Elective .....	3
HIST		History Electives* .....	6
		(3-6 hours upper division, 3 hours must be non-American)	
PEAC		P.E. Elective .....	1
RLGN		Religion Electives* (3-6 hours upper division) .....	6
			16

\*A total of 7 upper division credits is required in addition to the nursing credits.

# Nursing

## Sample Four-Year B.S. Degree Plan with One Year of Pre-Nursing or Three-Year A.S. Degree Plan with One Year of Pre-Nursing

### Fall

BIOL	101	Anatomy & Physiology +	4
CHEM	101,102	Intro to Chemistry +* (Or Chemistry Competency Placement Test)	(3)(1)
MATH	110	College Algebra + (Or Math Competency Placement Exam)	(3)
NRSA	291	Medical Terminology**	(1)
PSYC	212	General Psychology +	3
PEAC		PE Elective	1
UNIV	101	Freshman Success	<u>1</u>
		<b>TOTAL</b>	<b>9(17)</b>

### Spring

BIOL	101	Anatomy & Physiology +	4
CHEM	103	Intro to Chemistry *	3
CHEM	104	Intro to Chem Lab Recommended *	(1)
ENGL	121	Freshman Composition +	3
NRSA	291	Medical Terminology**	(1)
PSYC	220	Human Growth & Development	3
RLGN		Religion Elective	<u>3</u>
		<b>TOTAL</b>	<b>16(18)</b>

### Fall

CSIS		Computer Elective	3
ENGL	220	Research and Professional Writing	3
NRSA	115	Fundamentals of Nursing	5
RLGN		Religion Elective	<u>3</u>
		<b>TOTAL</b>	<b>14</b>

### Spring

HIST		History Elective*	3
HLED	216	Nutrition ..	2
NRSA	118	Nursing Accross the Life Span	8
SOCI	111	Intro to Sociology	<u>3</u>
		<b>TOTAL</b>	<b>16</b>

### Summer

NRSA	225	Child Health Nursing	<u>3</u>
		<b>TOTAL</b>	<b>3</b>

### Fall

BIOL	220	Microbiology	4
NRSA	235	Mental Health Nursing (or)	4
NRSA	236	Parent/Infant Nursing	(4)
NRSA	245	Adult Health Nursing	4
RLGN		Religion Elective *	<u>3</u>
		<b>TOTAL</b>	<b>15</b>

### Spring

NRSA	235	Mental Health Nursing (or)	(4)
NRSA	236	Parent/Infant Nursing	4
NRSA	255	Adult Role Trans	3
NRSA	260	Nsg Seminar	1
ENGL		Literature Elective *	3
MATH	241	Intro to Prob & Stats *	3
PEAC		PE Elective *	<u>1</u>
		<b>TOTAL</b>	<b>15</b>

+ Admission pre-requisites.

\* Required cognate/general education courses for BS may be taken while enrolled in AS program. Some general education/ cognate courses can be changed in sequence to meet individual needs.

\*\*Highly recommended for either Fall or Spring Semester, but not required.

**A.S.** Total Hours = 72  
Nursing Hours = 32

**A.S. PROGRAM COMPLETED AT THIS POINT.**  
Students may sit for NCLEX-RN.

### Summer

NRSB	310	Pathophysiology (or)	(3)
NRSB	326	Assessment: Birth-Sens	3
RLGN		Religion Elective (UD)	<u>3</u>
		<b>TOTAL</b>	<b>6</b>

### Fall

HIST		Non-American Hist Elective	3
NRSB	310	Pathophysiology (or)	(3)
NRSB	326	Assessment: Birth-Sens	3
NRSB	350	Community Health I	4
NRSB	435	Manage/Leadership	3
NRSB	436	Nursing Research	3
NRSB	491	Selected Topics in Professional Nsg	<u>1</u>
		<b>TOTAL</b>	<b>17</b>

### Spring

NRSB	316	Issues & Trends	2
NRSB	375	Critical Care	5
NRSB	450	Community Health II	4
NRSB	455	Adv Nursing Seminar	3
NRSB	491	Selected Topics in Professional Nursing	<u>2</u>
		<b>TOTAL</b>	<b>16</b>

**B.S.** Total Hours = 130  
Nursing Hours = 33  
Required Upper Division Hours = 40

## Associate of Science Curriculum for the Advanced Placement Student (LVN)

### Spring

CSIS		Computer Elective .....	3
ENGL	220	Research and Professional Writing .....	3
HLED	216	Nutrition .....	2
NRSA	110	Nursing-Life Span LVN .....	4
NRSA	291	Medical Terminology * .....	(1)
PSYC	311	Human Growth Development .....	3
		TOTAL	15(16)

### Summer

NRSA	225	Child Health Nursing .....	3
		TOTAL	3

### Fall

BIOL	220	Microbiology .....	4
NRSA	235	Mental Health Nursing (or) .....	4
NRSA	236	Parent/Infant Nursing .....	(4)
NRSA	245	Adult Health Nursing .....	4
RLGN		Religion Elective .....	3
		TOTAL	15

### Spring

NRSA	235	Mental Health Nursing (or) .....	(4)
NRSA	236	Parent/Infant Nursing .....	4
NRSA	255	Adult Role Trans .....	3
NRSA	260	Nsg Seminar .....	1
PEAC		PE Elective .....	1
SOCI	111	Intro to Sociology .....	3
RLGN		Religion Elective .....	3
		TOTAL	15

\* highly recommended

## A.S. PROGRAM COMPLETED AT THIS POINT.

Students may sit for NCLEX-RN.

### COURSES

#### **NRSA 110 Nursing Across the Life Span - LVN 4 hours**

Prerequisites: BIOL 101, 102; ENGL 121; PSYC 212

Corequisites: HLED 216, PSYC 220

The student applies principles of health promotion and the nursing process as a provider of care for individuals and families across the life span. Common conditions of adults and aging requiring medical and surgical interventions are emphasized. Concepts of nutrition, communication, cultural perspectives, spirituality, and pharmacology are covered. 4 Theory. (Fall)

#### **NRSA 111 Coaching for Success in Nursing 1 hour**

This course is designed to enhance skills needed for success in nursing courses at the Associate Degree level. Emphasis is placed on integrating knowledge to develop expert learning strategies. (Fall, Spring)

#### **NRSA 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)

#### **NRSA 115 Fundamentals of Nursing**

**5 hours**

Prerequisite: BIOL 101, BIOL 102, ENGL 121, PSYC 212 and acceptance into the nursing program

Introduces the student to fundamental concepts of nursing and beginning skills necessary to implement the nursing process. Physical, mental, sociocultural, and spiritual needs are discussed in relation to adaptation, developmental stage, environment, and health status. Basic pharmacologic concepts are incorporated. 3 Theory 6 Clinical. (Fall)

#### **NRSA 118 Nursing Across the Life Span**

**8 hours**

Prerequisites: NRSA 115

Corequisites: HLED 216, PSYC 220

Expands general concepts of nursing practice introduced in NRSA 115. The student applies principles of health promotion and the nursing process as a provider of care for individuals and families across the life span. Common conditions of adults and aging requiring medical and surgical interventions are emphasized. Common pediatric conditions are also included. Concepts of nutrition, communication, cultural perspectives, spirituality, and pharmacology are integrated. Also included are basic principles and applications of pharmacology, dosage calculation, administration of medicines and drug classification. 4 Theory 12 Clinical. (Spring)

#### **NRSA 225 Child Health Nursing**

**3 hours**

Prerequisites: NRSA 118 or NRSA 110, HLED 216, PSYC 220

Builds on beginning knowledge of child health problems developed in NRSA 110 or 118. Applies the nursing process to the nursing of children and their families with continued emphasis on growth and development, prevention, and treatment of illness in the hospital and community. Complex health problems of children are examined including congenital and acquired conditions. 1.5 Theory 4.5 Clinical. (Summer)

#### **NRSA 235 Mental Health Nursing**

**4 hours**

Prerequisites: NRSA 225

Involves the study of thoughts, emotions, and behavior and the application of mental health principles. The student applies the nursing process to clients with maladaptive behaviors in psychiatric settings. Emphasis is on the promotion of mental health. 2 Theory 6 Clinical. (Fall, Spring)

#### **NRSA 236 Parent/Infant Nursing**

**4 hours**

Prerequisite: NRSA 225

Introduces the maternity cycle as a normal process, followed by obstetrical complications. The student applies the nursing process to the care of parents and infants during prenatal, natal and postnatal periods. Attention is given to the human reproductive system as well as sexually transmitted diseases. 2 Theory 6 Clinical. (Fall, Spring)



# Nursing

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## **NRSA 245 Adult Health Nursing 4 hours**

Prerequisites: NRSA 225  
Corequisites: BIOL 220

Builds on selected concepts introduced in first-year courses while focusing primarily on the adult and elderly. The student applies the nursing process to clients with increasingly complex needs across the life span. Concepts of nutrition, communication, cultural perspectives, spirituality and pharmacology are integrated into this course. 2 Theory 6 Clinical. (Fall)

## **NRSA 255 Adult Nursing Role Transition 3 hours**

Prerequisites: NRSA 245, BIOL 220

Additional complex medical-surgical nursing content, management and leadership concepts, skills, and professional issues for the associate degree nurse are discussed. Clinical experiences focus on care of groups of clients, collaborative management activities and care of acutely ill clients in emergency or critical care environments. Experiences in both the classroom and clinical settings are designed to assist the student in making the transition from nursing student to graduate. 1.5 Theory 4.5 Clinical. (Spring)

## **NRSA 260 Nursing Seminar 1 hour**

Prerequisite: All nursing courses that are not corequisites.  
Prerequisite or Corequisite: NRSA 255 and 235 or 236

A capstone course designed to provide structure and guidance in preparation for the NCLEX-RN. A passing grade on the final exit exam is required. 1 seminar credit hour. Pass/fail course. (Spring)

## **NRSA 291 Selected Topics in Nursing 1-3 hours**

Subject of study is selected in conference between student and advisor and will consist mainly of guided study and/or preceptored clinical experience. Content and behavioral objectives must be approved by the A.S. Faculty/Curriculum Committee. May be repeated. (Fall, Spring)

## **NRSB 310 Pathophysiology 3 hours**

Prerequisite: Admission to B.S. program standing in nursing or permission of instructor. BIOL 101 and 102.  
Prerequisites or corequisites: CHEM 101.

Physiological changes that result from pathological processes are examined within the framework of systems theory. Students are assisted in integrating their knowledge with professional nursing care. 3 Theory. (Fall, odd summers)

## **NRSB 316 Issues and Trends in Health Care 2 hours**

Prerequisite: Admission to B.S. program standing in nursing or permission of instructor.

Focus is on recent trends, issues and concerns within professional nursing. The student has the opportunity to explore relevant topics related to clients, professional nursing, and the health care delivery system. 2 Theory. **This course meets the upper division writing component for senior year English.** (Spring)

## **NRSB 326 Assessment: Birth to Senescence 3 hours**

Prerequisite: Admission to B.S. program standing in nursing or permission of instructor.

Provides structured learning experiences to enable the student to perform complete nursing assessment, including systematic collection of data, history taking, physical examination 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,

skills laboratory practice and performing assessments for ambulatory clients and for residents of geriatric care facilities. 3 Theory. (Fall, even summers)

## **NRSB 350 Community Health Nursing I 4 hours**

Prerequisites or corequisites: RN licensure.

Introduction to the practice of nursing in community settings. Emphasis is placed on care of families at risk for physical, social, mental and spiritual dysfunction. Interventions for vulnerable individuals, families and groups across the life span are examined and practiced in a variety of community settings. 2.5 Theory 4.5 Clinical. (Fall)

## **NRSB 375 Critical Care Nursing 5 hours**

Prerequisites: NRSB 310, 326; RN licensure.

Prerequisites or corequisites: CHEM 103.

Content is selected to increase breadth and depth in medical/surgical nursing with integration of mental health and community health concepts. Students apply the professional roles in the provision of care in progressively complex situations. 3 Theory 6 Clinical. (Spring)

## **NRSB 435 Management and Leadership 3 hours**

Prerequisite: RN licensure.

Utilizes theoretical and research models to provide practical applications in today's health-care settings. The student examines concepts including team building, problem solving, decision making, effective communication, managing change and conflict resolution. 2 Theory. 3 Clinical. **This course meets the upper division writing component for senior year English.** (Fall)

## **NRSB 436 Nursing Research 3 hours**

Prerequisite: Admission to B.S. program standing in nursing or permission of instructor.

Prerequisite or corequisite: MATH 241.

Focus is on understanding research concepts and the methodology involved in conducting needed research in nursing and health fields. Students learn how to evaluate research reports and how to utilize and participate in research. 3 Theory. (Fall)

## **NRSB 450 Community Health Nursing II 4 hours**

Prerequisite: NRSB 350 or permission of instructor.

Theory and application of comprehensive and complex community-based nursing services to individuals, families and high-risk groups across the life span. Focus is on health promotion, primary disease prevention and management of chronic health problems in home and community settings. 2.5 Theory 4.5 Clinical. (Spring)

## **NRSB 455 Advanced Nursing Seminar/Practicum 3 hours**

Prerequisites: RN licensure and permission of instructor.

Theory and clinical course, under the guidance of faculty and preceptors, in which the student selects an area of interest for in-depth study. Synthesis and application of the professional roles in the provision of nursing care is emphasized. This course meets the general education requirement of speech. 1.5 Theory 4.5 Clinical. (Spring)

## **NRSB 491 Selected Topics in Professional Nursing 1-3 hours**

Subject of study is selected in conference between student and advisor and will consist mainly of independent study, preceptored clinical experiences and/or research. Content and behavioral objectives must be approved by B.S. Faculty/Curriculum Committee prior to implementation. May be repeated. (Fall, Spring)



# Physical Education, Wellness

Barbara R. Harsany, Chair; Rod Bussey, Rob Gettys, Krystal Hauff,  
Michael England  
Adjunct: Ernie Drapiza, Brandy Gettys, Kent Tucker

## AIMS OF THE DEPARTMENT

The Physical Education Department provides classes and support for Physical Education, Wellness and Exercise Science majors as well as minors in Physical Education, Wellness, and Coaching. Classes to support the general studies students in fitness, wellness and physical education are also provided. In the basic fitness and wellness classes, students are guided through a personal fitness program and encouraged to adopt a proactive wellness lifestyle, consistent with SDA teachings. Infrastructure to the University is provided by the Physical Education Department through the management of an intramural sports program and the operation of a fitness/recreation center that are available to all students and faculty 16 hours a day.

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

## PROGRAMS

B.S. Exercise Science  
B.S. Physical Education  
B.S. Wellness  
A.S. Wellness  
Teaching Area - All Level Certification  
Minors in Coaching, Physical Education, and Wellness

## Exercise Science, B.S.

HLED 111	Health and Wellness	3
HLED 216	Nutrition	2
PEAC 115	Strength Training	1
PETH 241	Care and Prevention of Athletic Injuries	3
PETH 310	Motor Learning	3
PETH 321	Exercise Physiology	3
PETH 331	Human Kinesiology	3
PETH 352	ACSM Certification*	3
PETH 354	Certified Strength & Conditioning Specialist*	3
PETH 460	Applied Social Research Methods	
or HNRS 480	Honors Thesis	3
PETH 480	Exercise Science Internship	6
PEAC	Electives	3
	<b>TOTAL</b>	<b>36</b>

\*Requires additional fee.

## Required Cognates:

BIOL 101	Anatomy & Physiology	4
BIOL 102	Anatomy & Physiology	4
CHEM 111	General Chemistry	4
CHEM 112	General Chemistry	4
MATH 241	Introduction to Statistics	3
PHYS 121	General Physics	4
PSYC 212	General Psychology	3
PSYC 311	Human Growth & Development	3

## Physical Education, B.S.

HLED 111	Health & Wellness	3
PEAC 415	Advanced Strength Training	1
PETH 110	Fundamentals of Physical Education	3
PETH 131	Officiating I	3
PETH 132	Officiating II	3
PETH 231	Professional Activities I	3
PETH 232	Professional Activities II	3
PETH 241	Care and Prevention of Athletic Injuries	3
PETH 243	Health & PE in the Elementary School	3
PETH 310	Motor Learning	3
PETH 321	Exercise Physiology	3
PETH 331	Human Kinesiology	3
PETH 351	Coaching	3
PETH 354	Certified Strength & Conditioning Specialist	3
PETH 431	Secondary Methods in PE	3
PETH 450	Administration of PE & Athletics	3
PETH 490	Senior Seminar	1

Choose three different hours from the following:	3	
PEAC 112 or 312	Aerobics or Advanced Aerobics	
PEAC 131 or 133	Swimming or Intermediate Swimming	
PEAC 141	Badminton	
PEAC 142 or 342	Tennis or Intermediate Tennis	
PEAC 143	Racquetball	
PEAC 334	Lifeguard Training*	
PEAC 344	Golf*	
PEAC 429	Gymnastic Team	
PETH 346	Pro Act/Track & Field	
	<b>TOTAL</b>	<b>50</b>

\*Requires additional fee.

## Required Cognates:

BIOL 101	Anatomy and Physiology	4
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## Physical Education Minor

PEAC 115	Strength Training	1
PETH 110	Fundamentals of Physical Education	3
PETH 131 or 132	Officiating I or II	3
PETH 231 or 232	Professional Activities I or II	3
PETH 241	Care and Prevention of Athletic Injuries	3
PETH 431	Secondary Methods	3

Choose three different hours from the following:	3	
PEAC 312	Advanced Aerobics	
PEAC 335	Advanced Swimming	
PEAC 342	Intermediate Tennis	
PEAC 343	Intermediate Racquetball	
PEAC 334	Lifeguard Training*	
PEAC 344	Golf*	
PEAC 429	Gymnastics Team	
	<b>TOTAL</b>	<b>19</b>

\*Requires additional fee.

## Required Cognates:

BIOL 101	Anatomy & Physiology	4
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# Physical Education, Wellness

## Coaching Minor

PEAC	115	Strength Training .....	1
PETH	131 or 132	Officiating I or II .....	3
PETH	231 or 232	Professional Activities I or II .....	3
PETH	241	Care and Prevention of Athletic Injuries .....	3
PETH	351	Coaching .....	3
PETH	354	Certified Strength & Conditioning Specialist ....	3
Choose two different P.E. activity courses: .....			2
TOTAL			18

## Required cognates:

BIOL	101	Anatomy & Physiology.....	4
HLED	111	Health & Wellness .....	3

## Wellness, B.S.

HLED	111	Health and Wellness .....	3
HLED	151	Introduction to Fitness Management .....	3
HLED	216	Nutrition .....	2
HLED	280	Health Fitness Internship .....	2-4
HLED	330	Healthful Living Programs .....	2-4
PEAC	111	Physical Fitness .....	1
PEAC 112 or 312		Aerobics or Advanced Aerobics .....	1
PEAC	115	Strength Training .....	1
PEAC	116	Fitness Walking.....	1
PEAC	333	Water Aerobics .....	1
or PEAC	334	Lifeguard Training	
PEAC	415	Advanced Strength Training .....	1
PETH	241	Care and Prevention of Athletics Injuries .....	3
PETH	321	Exercise Physiology .....	3
PETH	331	Human Kinesiology .....	3
PETH	352	ACSM Certification* .....	3
PETH	354	Certified Strength & Conditioning Specialist* ....	3
TOTAL			33-37

\*Requires additional fee.

## Required Cognates:

ACCT	211	Accounting Principles I .....	4
BIOL	101	Anatomy and Physiology.....	4
COMM	111	Fundamentals of Speech .....	3
COMM	223	Media Writing .....	3
PSYC	311	Human Growth and Development .....	3

## Wellness, A.S.

HLED	111	Health & Wellness .....	3
HLED	151	Introduction to Fitness Management .....	3
HLED	216	Nutrition .....	2
HLED	280	Health Fitness Internship .....	2-4
PEAC	111	Physical Fitness .....	1
PEAC 112 or 312		Aerobics or Advanced Aerobics.....	1
PEAC 115 or 415		Strength Training or Adv. Strength Training....	1
PEAC	116	Fitness Walking.....	1
PEAC	333	Water Aerobics .....	1
or PEAC	334	Lifeguard Training	
PETH	241	Care and Prevention of Athletic Injuries .....	3
PETH	352	ACSM Certification* .....	3
TOTAL			21-23

\*Requires additional fee.

## Required Cognates:

BIOL	101	Anatomy & Physiology .....	4
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## Wellness Minor

HLED	111	Health and Wellness .....	3
HLED	151	Introduction to Fitness Management .....	3
HLED	216	Nutrition .....	2
PEAC 112 or 312		Aerobics or Advanced Aerobics .....	1
PEAC 115 or 415		Strength Training or Adv. Strength Training .....	1
PEAC	116	Fitness Walking.....	1
PEAC	333	Water Aerobics .....	1
or PEAC	334	Lifeguard Training	
PETH	241	Care and Prevention of Athletic Injuries .....	3
PETH	352	ACSM Certification* .....	3
TOTAL			18

\*Requires additional fee.

## Required Cognates:

BIOL	101	Anatomy and Physiology .....	4
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## TEACHING CERTIFICATION PROGRAM

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

## Physical Education, BS - All Level K-12 Teaching Certification Option V (See Education section of Bulletin.)

The student must meet the requirements for a B.S. degree in Physical Education.

## HEALTH EDUCATION COURSES

### HLED 111 Health and Wellness 3 hours

A study of wellness as it relates to personal fitness, nutrition, stress management, substance abuse, communicable diseases, cancer, heart disease, environmental health, and SDA health heritage. Each student participates in a 15 week personal fitness program in which they track their body composition, strength, and oxygen uptake. (Fall, Spring, Summer)

### HLED 151 Introduction to Fitness Management 3 hours

An introduction to the fitness marketplace with emphasis in administration. Laboratory experience includes selected aspects of fitness including fitness screening, weight management programs, and fitness assessments. Visitation to hospitals, private clubs, and corporate clubs are part of the class. (Spring, even years)

### HLED 216 Nutrition 2 hours

A study of the nutrients now known to be required in the human diet and how to best obtain these nutrients. The student will learn to correlate dietary practice with physiological consequences and understand basic physiological functions of the nutrients in food. (Fall, Spring)

### HLED 280 Health Fitness Internship 2-4 hours

Prerequisite: Approval by department chair.

This course offers the student on-the-job training at an approved fitness center. Rotation of duties is planned so the student will be exposed to a variety of experiences. Admission is limited to seniors with a GPA of 2.5 in wellness. Forty-five hours of experience is required for each hour of credit earned. Pass/fail course. (Fall, Spring, Summer)

# Physical Education, Wellness

## **HLED 291 Selected Topics 1-3 hours**

Prerequisite: Approval by 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.

## **HLED 330 Healthful Living Programs 2-4 hours**

Prerequisite: Approval by department chair.

There are two options available to the students in this course. Option one involves an internship with an approved wellness facility. Forty hours of work are required for each hour of earned credit. Option two involves organizing and running wellness programs for the community, under the direction of the Physical Education & Wellness Department. Pass/fail course. (Summer)

## **HLED 491 Selected Topics 1-3 hours**

Prerequisite: Approval by department chair.

Open to Wellness majors for research or special projects. Content and methods of study must be arranged prior to registration. May be repeated for a total 3 credits.

## **PHYSICAL EDUCATION THEORY COURSES**

### **PETH 110 Fundamentals of Physical Education 3 hours**

A general introduction to physical education, including historical and scientific foundations of physical education, exercise science and sports. Students will explore career opportunities and current issues in these fields. (Fall, even years)

### **PETH 131 Officiating & Recreational Sports I 3 hours**

Theory and practice of officiating soccer, basketball and floor hockey, including rules, interpretation of rules, officiating techniques and examinations. Part of the class requirements are to officiate college intramurals and to assist in the administration of the recreational sports program. (Spring)

### **PETH 132 Officiating & Recreational Sports II 3 hours**

Theory and practice of officiating flagball, volleyball, and softball including rules, interpretation of rules, officiating techniques and examinations. Part of the class requirements are to officiate college intramurals and to assist in the administration of the recreational sports program. (Fall)

### **PETH 231 Professional Activities I 3 hours**

Development of skills and teaching techniques of soccer, basketball, badminton and floor hockey. (Spring, odd years)

### **PETH 232 Professional Activities II 3 hours**

Development of skills and teaching techniques of flagball, volleyball, softball and tennis. (Fall, even years)

### **PETH 241 Care and Prevention of Athletic Injuries 3 hours**

Prerequisite: BIOL 101

An introduction to prevention and management of injuries resulting from athletic activities. Treatment options include: support methods, conditioning exercises, and therapeutic aids. Laboratory work includes bandaging and taping various athletic injuries. (Spring)

### **PETH 243 Health and Physical Education in the Elementary School 3 hours**

Prerequisite: Admission to teacher education.

The course provides the student with an extensive repertoire of teaching techniques in the elementary physical education program. Emphasis is placed on health-related fitness, skill development, special events, and game development. Students will have the opportunity to develop lesson plans. Includes field experience. (Fall)

### **PETH 291 Selected Topics 1-3 hours**

Prerequisite: Approval by department chair

A study in an area of student interest under the direction of a faculty 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.

### **PETH 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 meets the upper division writing component for senior year English.** (Fall, odd years)

### **PETH 321 Exercise Physiology 3 hours**

Prerequisite: BIOL 101

Emphasizes physiological response and adaptation to exercise with regard to human performance limitations, training effects, and health-related benefits. Class includes laboratory activities and fitness assessments. **This course meets the upper division writing component for senior year English.** (Fall, even years)

### **PETH 331 Human Kinesiology 3 hours**

Prerequisite: BIOL 101

This course teaches students to analyze, describe, and understand motion principles of the body that relate to sport and teaching movement skills. Class includes laboratory activities and qualitative research. **This course meets the upper division writing component for senior year English.** (Spring, even years)

### **PETH 346 Professional Activities/Track & Field 3 hours**

Development of skills and teaching techniques of the triple jump, long jump, high jump, hurdles, sprints, relays, cross-country, javelin throw, discus and shot-put. (Fall, odd years)

# Physical Education, Wellness

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**PETH 351 Coaching 3 hours**

Prerequisite: PETH 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 meets the upper division writing component for senior year English.** *Requires additional fee.* (Spring, odd years)

**PETH 352 ACSM Health & Fitness Instructor 3 hours**

Prerequisite: BIOL 101

Covers an in-depth knowledge of exercise physiology, health appraisal techniques, risk factor identification, sub-maximal exercise testing and exercise prescriptions for various populations. Class includes laboratory activities. *Testing requires additional fee.* (Fall)

**PETH 354 Certified Strength Conditioning Specialist 3 hours**

Prerequisite: PETH 321, 331.

The study of safe and effective strength training, lifting, and spotting techniques. In depth study of anatomy and kinesiology affecting muscle strength and endurance. *Testing requires an additional fee.* (Spring, odd years)

**PETH 431 Secondary Methods 3 hours**

Prerequisite: PETH 231 and 232.

The study of methods and techniques of teaching physical education in the secondary school, includes individual as well as group activities; students are required to observe and demonstrate in class, should be taken the senior year. (Fall, even years)

**PETH 450 Administration of Physical Education, Fitness & Sports 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 managements, leadership, and legal issues related to physical education. **This course meets the upper division writing component for senior year English.** (Fall, odd years)

**PETH 460 Applied Social Research Methods 3 hours**

Prerequisite: MATH 241, ENGL 220.

An introduction to applied research methods and their applications to the disciplines of Social Work, Criminal Justice and Law Enforcement, Physical Education, Psychology, and Sociology. 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 meets the upper division writing component for senior year English.** (Also taught as CJLE, HIST, PSYC, SOCI or SOWK 460.) (Spring, even years) (Spring, even years)

**PETH 480 Exercise Science Internship 3-6 hours**

Prerequisite: Approval by department chair.

The Physical Education Department 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. Pass/fail course. (Fall, Spring, Summer)

**PETH 490 Senior Seminar 1 hour**

This is a capstone course where students will study and discuss current issues and concepts within the Physical Education profession. In addition, the students will prepare for employment in the profession. The class also prepares students for the major exit exam. (Spring)

**PETH 491 Selected Topics 1-3 hours**

Prerequisite: Approval by department chair.

Open to advanced physical education students for research or special project. Content and method of study must be arranged prior to registration. May be repeated for a total of 3 credits.

## PHYSICAL EDUCATION ACTIVITY COURSES

**PEAC 111 Physical Fitness 1 hour**

An introduction to personal fitness and application of training principles. Nutrition, weight management, and stress management are also monitored throughout the semester. This course also gives students an opportunity to explore SDA church heritage as it relates to healthful living. (Fall, Spring)

**PEAC 112 Aerobics 1 hour**

An introduction to basic floor movements, calisthenics, and step aerobics. Students are also introduced to choreography. (Fall, Spring)

**PEAC 115 Strength Training 1 hour**

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

**PEAC 116 Fitness Walking 1 hour**

An introduction to cardiovascular fitness through walking. (Fall)

**PEAC 121 Flag Football 1 hour**

This course develops fundamental skills, knowledge of rules, and implementation of strategy in flag football. (Fall, even years)

**PEAC 122 Soccer 1 hour**

Students are taught the basic skills in kicking, passing, tackling and goal keeping. Offensive and defensive strategies are introduced. (Fall)

**PEAC 125 Volleyball 1 hour**

Students are taught basic skills in passing, setting, serving, and spiking. Offensive and defensive strategies are introduced. (Fall)

**PEAC 130 Baseball/Softball 1 hour**

This course develops fundamental skills, knowledge of rules, and implementation of strategy in baseball and softball. (Spring)

**PEAC 131 Beginning Swimming 1 hour**

Students are introduced to basic aquatic safety, floating, freestyle, and elementary back stroke. (Fall)

**PEAC 133 Intermediate Swimming 1 hour**

Students are taught elementary rescue and intermediate skills in freestyle, back crawl, and side stroke. The butterfly stroke is introduced. (Fall)



# Physical Education, Wellness

- PEAC 142 Beginning Tennis** **1 hour**  
Students develop skill in the basic strokes (forehand, backhand, serve, volley, and lob). They are also introduced to strategy of play. (Fall)
- PEAC 145 Beginning Racquetball** **1 hour**  
An introduction to five basic serves, forehand, backhand, strokes, rules, sportsmanship and strategy of the game. (Fall, Spring)
- PEAC 237 Canoeing** **1 hour**  
An introduction to basic skills and safety procedures of recreational canoeing. (Offered periodically)
- PEAC 243 Snow Boarding** **1 hour**  
An introduction to basic skills of snow boarding. Mountain trip during spring break. *Requires additional fee.* (Spring)
- PEAC 245 Snow Skiing** **1 hour**  
An introduction to basic skills of downhill snow skiing. Mountain trip during spring break. *Requires additional fee.* (Spring)
- PEAC 291 Selected Topics** **1 hour**  
Prerequisite: Introductory course or approval of instructor.  
A course designed for students who must complete a class independently.
- PEAC 312 Advanced Aerobics** **1 hour**  
High intensity aerobic class. May include step aerobics, kick boxing, or other popular routines. (Spring)
- PEAC 315 Intermediate Basketball** **1 hour**  
Development of skills in shooting, passing, executing plays and understanding offensive and defensive strategy. (Spring, odd years)
- PEAC 316 Individual Conditioning** **1 hour**  
Designed for special students who, because of physical limitations, cannot mainstream in other physical education classes.
- PEAC 320 SCUBA** **1 hour**  
Development of skills necessary for PADI scuba certification. Check-off dives at Lake Travis. *Requires additional fee.* (Spring)
- PEAC 333 Water Aerobics** **1 hour**  
An introduction to basic water movements for strength and flexibility. (Fall)
- PEAC 334 Lifeguard Training** **1 hour**  
Credit granted only by proficiency for those holding current Red Cross certification. *Requires a recording fee.*
- PEAC 335 Advanced Swimming** **1 hour**  
Prerequisite: Approval by department chair.  
Opportunity is given for students to progress to advanced levels of swimming in backstroke, freestyle, breaststroke, and butterfly stroke. (Offered periodically)
- PEAC 342 Intermediate Tennis** **1 hour**  
Prerequisite: Introductory course or approval of instructor.  
For the student who wants to develop advanced skills in overhead smash, full serve, drop shot, and advanced strategy for both singles and doubles plays. (Offered periodically)
- PEAC 343 Intermediate Racquetball** **1 hour**  
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. (Offered periodically)
- PEAC 344 Golf** **1 hour**  
An introduction to the basic strokes in golf (driving, chipping, and putting). Scoring terminology and golf etiquette are also taught. Students play on community golf courses. *Requires additional fee.* (Fall, even years)
- PEAC 346 Inline Hockey** **1 hour**  
Students will learn fundamental skills of skating, stick handling, passing and shooting. They will also be introduced to offensive and defensive strategy of play. Students must have their own skates and protective equipment, including helmet/mask, gloves shin guards and elbow pads. (Spring)
- PEAC 415 Advanced Strength Training** **1 hour**  
Prerequisite: PEAC 115 or Permission 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)
- PEAC 429 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. (Fall, Spring)
- PEAC 430 Golf Team** **1 hour**  
Prerequisite: approval of Instructor.  
Students must be prepared for match play and develop course management skills. (Offered periodically)
- PEAC 436 Water Safety Instructor** **1 hour**  
Prerequisite: PEAC 334 Lifeguard Training and approval of instructor.  
Leads to Red Cross certification. (Offered periodically)
- PEAC 491 Selected Topics** **1 hour**  
Prerequisite: Approval by department chair.  
A course designed for students with intermediate skill level. (Offered periodically)



# Physics

Karl Konrad, Chair; Bill Atkins

## AIMS OF THE PROGRAM

Majoring in 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 majors for a professional career or graduate study, provide the training required by other programs and professional schools, and support the general education program of the University by providing courses of instruction for non-science students.

## PROGRAMS

- B.S. Mathematical Physics - 52 hours (30 u.d.)
- B.S. Physics - 36 hours (25 u.d.)
- B.S. Physical Science - Secondary Certification
- Physics Minor - 18 hours (6 u.d.)

### Mathematical Physics, B.S.

MATH	181	Calculus I .....	4
MATH	282	Calculus II .....	4
MATH	283	Calculus III .....	4
MATH	321	Differential Equations .....	3
MATH	361	Introduction to Linear Algebra .....	3
MATH	381	Complex Variables .....	3
MATH	411	Numerical Analysis .....	3
MATH	431	Modern Algebra	
or MATH	471	Advanced Calculus .....	3
MATH	451	Statistical Analysis .....	3
PHYS	121	General Physics .....	4
PHYS	122	General Physics .....	4
PHYS	221, 222	General Physics with Calculus .....	2
PHYS	311	Modern Physics .....	3
PHYS	322	Classical Mechanics .....	3
PHYS	351	Electromagnetic Fields .....	3
PHYS	411	Quantum Mechanics .....	3
		TOTAL	52

The B.S. in Mathematical Physics is a composite major, therefore no minor is required.

### Physics, B.S.

PHYS	121	General Physics .....	4
PHYS	122	General Physics .....	4
PHYS	221, 222	General Physics with Calculus .....	2
PHYS	291	Selected Topics .....	1
PHYS	305	Digital Electronics .....	4
PHYS	311	Modern Physics .....	3
PHYS	322	Classical Mechanics .....	3
PHYS	331	Thermodynamics .....	3
PHYS	351	Electromagnetic Fields .....	3
PHYS	352	Electromagnetic Radiation .....	3
PHYS	411	Quantum Mechanics .....	3
PHYS	412	Advanced Modern Physics .....	3
		TOTAL (25 u.d.)	36

Required cognates:

MATH 181, 282, 283, 321; CSIS 110; CHEM 111, 112

### Physics Minor

PHYS	121, 122	General Physics .....	8
PHYS	311	Modern Physics .....	3
PHYS		Electives .....	7
		TOTAL (6 u.d.)	18

### 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 .....	3
PHYS	121, 122	General Physics .....	8
PHYS	221, 222	General Physics with Calculus .....	2
PHYS	311	Modern Physics .....	3
PHYS	322	Classical Mechanics .....	3
PHYS	351	Electromagnetic Fields .....	3
PHYS	352	Electromagnetic Radiation .....	3
PHYS	412	Advanced Modern Physics .....	3
CHEM	111, 112	General Chemistry .....	8
CHEM	331, 332	Organic Chemistry .....	8
CHEM	341	Physical Chemistry .....	4
		TOTAL (27 u.d.)	48

# Physics

## COURSES

### **PHYS 101 Introductory Physics 3 hours**

A laboratory science course for the student with no previous background in physics. A conceptual, rather than mathematical, approach is emphasized. Topics include mechanics, heat, sound, electromagnetism, light, and modern physics. 2 Lec 3 Lab. (Fall)

### **PHYS 112 Introductory Astronomy 3 hours**

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 4 hours**

Prerequisite: MATH 121 or equivalent

An introduction to motion in one dimension, vectors in 2 and 3 dimensions, the laws of motion, work and energy, momentum and collisions, uniform curricular 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 4 hours**

Prerequisite: MATH 121 or equivalent

Continuation of PHYS 121. Topics include: electric force and electric field, electric potential, capacitance, resistance and resistivity, direct and alternating currents, Kirchhoff Laws, 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, particles. 3 Lec 3 Lab. (Spring)

### **PHYS 221 General Physics with Calculus 1 hour**

Prerequisite: MATH 181

Corequisite: PHYS 121

A one hour addition to the topics of PHYS 121 where the 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)

### **PHYS 222 General Physics with Calculus 1 hour**

Prerequisite: MATH 181

Corequisite: PHYS 121

A one hour addition to the topics of PHYS 122 where the 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)

### **PHYS 291 Selected Topics 1 hour**

Prerequisite: Approval of department chair

Study in areas of interest beyond those listed in the bulletin. May include lectures, lab or readings under the direction of staff 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: Permission of instructor

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. 3 Lec 3 Lab. (Fall)

### **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)

### **PHYS 322 Classical Mechanics 3 hours**

Prerequisite: PHYS 122, 222

Corequisite: MATH 282

The Newtonian dynamics of particles and rigid bodies; central forces, harmonic motion, many particle systems, and an introduction to the formalisms of Lagrange and Hamilton. (Offered periodically)

### **PHYS 331 Thermodynamics 3 hours**

Prerequisite: PHYS 122, 222

The laws and application of thermodynamics, kinetic theory, transport theory and statistical mechanics. (Offered periodically)

### **PHYS 351 Electromagnetic Fields 3 hours**

Prerequisite: 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)

### **PHYS 352 Electromagnetic Radiation 3 hours**

Prerequisite: PHYS 351

Maxwell's equations and electromagnetic waves; plane waves in infinite media, reflection and refraction, guided waves, and multipole radiation. (Offered periodically)

### **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 meets the upper division writing component for senior year English.** (Offered periodically)

### **PHYS 412 Advanced Modern Physics 3 hours**

Prerequisite: PHYS 411

Applications of quantum mechanics to atoms, molecules, solids, nuclei and elementary particles. (Offered periodically)

### **PHYS 491 Selected Topics 1-3 hours**

Prerequisite: Approval of department chair

Study in areas of interest beyond those listed in the bulletin. May include lectures, lab or readings under the direction of staff member. Content and methods of study to be arranged prior to registration. May be repeated for a total of 3 credits.

# Psychology

Mark Aldridge, Director; Bonnie Gnadt, Steve Stafford

## AIMS OF THE DEPARTMENT

The goals of the department are to serve those who are interested in majoring in psychology and those who wish to pursue advanced degrees in the areas of psychology and counseling. This degree is designed as a basis for graduate work which provides a basic understanding of Christian psychological principles and to provide a background for a wide variety of careers that involve working with people.

## PROGRAMS

### Psychology, B.S.

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 450	Psychology of Adulthood and Aging	3
PSYC 460	Applied Social Research Methods	3
PSYC 470	Counseling Theories & Techniques	3
PSYC	Electives	3
	Total	36

### Required Cognates:

COMM 233	Interpersonal Communication	3
MATH 241*	Intro to Probability and Statistics	3
	Choose <i>one</i> of the following series:	8
BIOL 101 & 102	Anatomy and Physiology	
BIOL 104 & 105	Human Biology	
BIOL 111 & 112	General Biology	
	Total	14

\*MATH 110 or a MPT score of 4 or 5 is prerequisite for this class.

### Psychology Minor

18 semester hours (9 hours upper division), which must include PSYC 212, 220, and 340.

## 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. (Also taught as SOWK 222.) (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. (Spring)

### PSYC 291 Selected Topics 1-3 hours

Prerequisite: Approval of department chair.

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

### PSYC 320 Parenting Skills 3 hours

A study of the care and guidance of the young child. Strategies for handling problems and behaviors are discussed. (Fall)

### PSYC 322 Adolescent Psychology 3 hours

An overview of the physical, mental and emotional phases of human development during the adolescent years. A study of the environmental and educational problems of the teenager. (Also taught as EDUC 322.) (Spring)

### PSYC 326 Exceptional Children 3 hours

A study in understanding educational and psychological problems in all areas of exceptionality. Study will include the characteristics, assessment, admission, review, and dismissal processes for special students requiring individualized or specialized programs. Includes field experience option. (Also taught as EDUC 326.) (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. (Also taught as SOWK 338.) (Spring, even years)

# Psychology

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**PSYC 340 Abnormal Psychology 3 hours**

Prerequisite: PSYC 212.

A study of maladaptive and disorganized behavior patterns within a personal and social context, including their development, symptoms, and treatment. Focus on the various etiologies of mental illness and treatment modalities. (Spring)

**PSYC 360 Personality Theory & Development 3 hours**

A study of major theories and the development of personality. (Fall)

**PSYC 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, odd years)

**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. (Fall)

**PSYC 460 Applied Social Research Methods 3 hours**

Prerequisite: MATH 241.

An introduction to applied research methods and their applications to the disciplines of Social Work, Criminal Justice and Law Enforcement, Physical Education, Psychology, and Sociology. 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 meets the upper division writing component for senior year English.** (Also taught as CJLE, HIST, PETH, SOCI, or SOWK 460.) (Fall)

**PSYC 470 Counseling Theory & Techniques 3 hours**

A study of various theories and techniques used in the counseling process. Study will also include techniques for interviews, administration and interpretation of tests, 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 related to the counselor, as well as the situation. (Spring)

**PSYC 480 Psychology Internship 1-6 hours**

Prerequisite: Senior status, cumulative GPA 3.0, 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

Lloyd Willis, Chair; Willie Hucks, Bill Kilgore, Ingo Sorke  
Adjunct: Russ Laughlin, Tim Peterson, George Reid, Theodore Stewart

## AIMS OF THE DEPARTMENT

This department seeks to introduce the student to a personal, vital and living experience with Jesus Christ, and to foster the growth of that experience. By careful examination and analysis of the written Word and its implications, every effort is made to determine the purposes and will of God, as well as His universal truths and ideals. Instruction is designed to provide students with a concept of service as well as to supply the methods which will enable them to share their experience, either in the ministry, or in effective lay witnessing in the church and the world at large, with the objective of advancing the proclamation of God's final message to the world.

## PROGRAMS

Besides providing courses designed to develop religious insights and skills in all students of the University, the department offers several programs to meet specific needs:

- B.A. Theology (Professional - for Pastoral Work and Seminary)
- B.A. Religion (for General Study Purposes)
- Minor in Religion
- Minor in Biblical Languages

### Religion, B.A.

RLGN 101	Christian Beliefs .....	3
RLGN 211	Life and Teachings of Jesus .....	3
RLGN 230	History of the SDA Church .....	3
RLGN 313	Prophetic Studies .....	3
RLGN 331, 332	History of Christianity .....	6
RLGN 410 or 411	Biblical Studies Seminar .....	3
9 hours from the following:		
RLGN 315, 316	Old Testament I, II .....	
RLGN 317, 318	New Testament I, II .....	9
	TOTAL .....	30

### Theology, B.A.

RLGN 101	Christian Beliefs .....	3
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, 324	Homiletics I, II .....	6
RLGN 331	History of Christianity I .....	3
RLGN 405	Biblical Theology .....	3
RLGN 410 or 411	Biblical Studies Seminar .....	3
RLGN 423, 424	Intro to Pastoral Ministry I, II .....	6
RLGN 427	Hospital Ministry .....	1
9 hours from the following:		
RLGN 315, 316	Old Testament I, II .....	
RLGN 317, 318	New Testament I, II .....	9
	TOTAL .....	49

### Required Cognates:

COMM 111	Fundamentals of Speech .....	3
HIST 332	History of Christianity II .....	3
PSYC 212	General Psychology .....	3

A Biblical Languages Minor is required to complete the Theology Program and for Seminary entrance.

### Religion Minor

RLGN 101	Christian Beliefs .....	3
RLGN 211	Life and Teachings of Jesus .....	3
RLGN	Electives .....	6
Select any two classes from:		
RLGN 313	Prophetic Studies .....	
RLGN 315, 316	Old Testament I, II or .....	
RLGN 317, 318	New Testament I, II .....	6
	TOTAL .....	18

### Biblical Languages Minor

RELL 240, 241	Elements of New Testament Greek .....	9
RELL 340	Intermediate New Testament Greek .....	3
RELL 343, 344	Elements of Biblical Hebrew I & II .....	6
RLGN 314	Origin & Development of the Bible .....	3
	TOTAL .....	21

### MINISTERIAL PROGRAM

Completion of the major in Theology meets minimal requirements for admission to the seminary or entrance into the ministry.

The department warmly welcomes persons who are moved to offer their lives in full-time service to God and humanity. The faculty is available to assist such 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 of less than 2.5, the minimum required for entrance to the SDA Theological Seminary. It is the student's personal responsibility to plan a course of study that includes all requirements for the degree sought.

### B.A. in Theology

This program follows a special two-stage composite sequence, each stage approximately two years in length. During the first stage (freshman and sophomore years), attention is concentrated on fulfilling the requirements of the core curriculum of the University, together with introductory Religion classes. During the sophomore year, students begin the study of New Testament Greek.

The second stage provides for completion of requirements for the bachelor of arts degree including specific professional studies.

Theology students will be guided into an increasing involvement in the practical aspects of church work. Under the direction of the department, they will be given steadily enlarging responsibilities to serve nearby congregations, institutions and evangelistic programs. This area of development is especially catered for in a student pastoral program coordinated by the SWAU Religion department in conjunction with the Texas Conference and the Southwest Region Conference.



## Ministerial Profile and Progression

A call to the pastoral ministry, or any related form of ministry, is very personal. The faculty of the Religion Department recognizes that students who come to the department will either have a sense of divine calling, or will be currently wrestling with this issue. The choice of ministry implies a high level of spiritual commitment and an exemplary life style.

Since graduates from the department will desire and need recommendation from the Religion Department in order to be seriously considered for ministerial work, and for admission to the Theological Seminary, a progressive procedure for guidance of prospective ministerial candidates has been set up. At the end of the first semester of the sophomore year, a personality profile inventory test is administered to all those pursuing the theology program. A small fee, in advance, is met by the student. After the test is processed, the department faculty sets up an appointment with each individual student for the purpose of analyzing the results and of providing the student with an opportunity for self-evaluation.

Continuation in the theology program is at all times contingent upon the student's maintaining satisfactory academic progress, exemplary social and cultural development, and dedication to the principles of the Christian faith and practice as taught by the Seventh-day Adventist Church.

In fulfillment of the requirements for the classes, RLG 423 & 424 Introduction to Pastoral Ministry, senior theology students prepare a paper describing their personal call and philosophy of ministry. Each paper is reviewed by the members of the Religion faculty, and followed by a personal exit interview with the combined 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 on the University campus.

## COURSES

### BIBLICAL STUDIES AND THEOLOGY

#### RLGN 101 Christian Beliefs

3 hours

A study of the basic concepts of Christian faith and practice with emphasis upon fundamental doctrines held by Seventh-day Adventists. (Fall, Spring)

#### RLGN 201 Bible Study Methods

1 hour

This course will teach the student a variety of methods for studying the Bible in order to gain a greater understanding of its message. It will contribute to both skill and confidence in the Bible student. (Fall)

#### RLGN 211 Life and Teachings of Jesus

3 hours

A survey study of the life and teachings of Jesus as outlined in the Gospels. His principles, methods, and teachings are studied in light of their application to modern life. (Fall, Spring)

#### RLGN 212 Basic Christian Ethics

3 hours

An introduction to the theory and practice of Christian morality; its Biblical origins, norms, and sources of authority, including Christian approaches to basic issues such as decision-making, church-world relations, war and peace, morality in economics, marriage and divorce, and methods of social change. (Fall)

#### 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. (Spring)

#### RLGN 314 Origin and Development of the Bible

3 hours

A careful study of the history and development of the written material and canon of Scripture, covering Old Testament, intertestamental literature and New Testament. It also reviews the development of the English Bible and seeks to assist in the evaluation of modern versions. (Fall)

#### RLGN 315, 316 Old Testament

3, 3 hours

An introduction to the history, literature, and thought of the Old Testament. Study is given to the contemporary objectives of each book and application to life in modern times. Fall topics: Background, Pentateuch, The Writings. Spring topics: Prophets, Historical Books. (RLGN 315 Fall, RLG 316 Spring)

#### RLGN 317, 318 New Testament

3, 3 hours

The study of the New Testament: its world and literature. Study is given to the theme and purpose of each book and applications to Christian life. Fall topic: Romans to Revelation. Spring topic: Gospels and Acts. (RLGN 317 Fall, RLG 318 Spring)

# Religion

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**RLGN 320 Ellen White Writings** **3 hours**  
Prerequisite: RLG 230

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. Recommended for theology majors. (Spring)

**RLGN 405 Biblical Theology** **3 hours**  
Prerequisite: RLG 101 and a RLG 300 level course.

This course in Biblical Theology consists of the study of several selected topics approached from a biblical perspective. Topics for study will be selected from the following: biblical inspiration and interpretation, the doctrine of God, the doctrine of Christ, the doctrine of Salvation, the doctrine of the Church, eschatology, and the doctrine of Man. These studies will focus upon the contributions of several biblical writers to each doctrinal issue. Some attention will also be given to the way in which selected recent writers have handled the biblical material. (Spring)

**RLGN 410, 411 Biblical Studies Seminar** **3, 3 hours**

Prerequisites: 3 hours from RLG 315, 316, 317 or 318, with an additional prerequisite of RELL 240 for RLG 411 only.

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. Spring semester: N.T. topic. **This course meets the upper division writing component for senior year English.** (RLGN 410 Fall, RLG 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.) (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.

## APPLIED RELIGION

**RLGN 210 Introduction to Missions** **1-2 hours**

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 220 Christian Witnessing** **3 hours**

A study of the biblical principles of the art and technique of personal evangelism. The student is taught to use the Scriptures effectively, to give specific Bible studies, to meet objections, and to gain decisions for Christ. (Fall, Spring)

**RLGN 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 323 Homiletics** **3 hours**

**RLGN 324 Homiletics** **3 hours**

Prerequisite: COMM 111.

A study of the basic concepts of biblical preaching and sermon preparation, including persuasion, human responses, the art of illustration and effective structure. The second semester features actual practice in preparation and delivery. (RLGN 323 Fall, RLG 324 Spring)

**RLGN 420 Pastoral Practicum** **1 hour**

Prerequisite: RLG 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 355 Music and Worship** **1 hour**

This course will acquaint the student with the variety of worship structures, musical styles and instruments available for the worship service. Students will be instructed in the purpose and design of worship services, in hymnology, in conducting and in rudimentary part-singing and choral conducting. (Fall)

**RLGN 423, 424 Introduction to Pastoral Ministry** **3, 3 hours**

Prerequisite: PSYC 212.

For senior ministerial students. Applied studies in church and ministry, leadership, pastoral care, visitation, counseling, organization and finance. The course is enriched by visits of specialists. (RLGN 423 Fall, RLG 424 Spring)

**RLGN 425 Field Evangelism** **3 hours**

Prerequisite: RLG 220.

This course provides classroom instruction by a successful professional evangelist, accompanied by actual participation in a three-week series of meetings. All facets of the course are taught in the city where the series is conducted. Taught on an arranged basis. (Summer)

**RLGN 427 Hospital Ministry** **1 hour**

Prerequisite: Admission to junior or senior-level standing.

This course provides opportunity for students to expand mission focus to include ministry in specialized settings. Emphasis is given to the advancement of communication and assessment skills. Concentration will also be placed on the development of personal and professional identity and their related issues. (Spring)

# Religion

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## RELIGIOUS HISTORY

### **RLGN 230 History of the Seventh-day Adventist Church 3 hours**

A historical study of the Adventist awakening of the 19th century and the subsequent rise, growth, and worldwide expansion of the Seventh-day Adventist Church. Special attention is given to the role of Ellen G. White in the growing church. (Fall, Spring)

### **RLGN 233 Introduction to Biblical Archaeology 3 hours**

A study of the history of archaeology, recent achievements, and archaeological method. (Spring)

### **RLGN 331, 332 History of Christianity 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)

## BIBLICAL LANGUAGES

### **RELL 240 Elements of New Testament Greek 5 hours**

### **RELL 241 Elements of New Testament Greek 4 hours**

An introductory study of the elements of New Testament Greek. Emphasis upon the fundamentals of grammar and vocabulary. Translation from the first epistle of John and portions of John's Gospel. 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)

### **RELL 343 Elements of Biblical Hebrew I 3 hours**

### **RELL 344 Elements of Biblical Hebrew II 3 hours**

An introductory course in the elements of Biblical Hebrew with emphasis on basic grammar and a working vocabulary. Translation from passages in the Old Testament. The second semester will include grammar review, but will focus upon translation from selected Old Testament passages. (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.

# Social Work

Phil Hieger, Chair; Nancy Rodriguez, Director of Field Education

## SOCIAL WORK PROGRAM OBJECTIVES

The objectives of the Social Work Program are:

1. To prepare students for professional entry-level generalist social work practice on various levels with sensitivity to the needs of diverse populations;
2. To promote a foundation for future learning including graduate social work education;
3. To provide students with the basic knowledge, values and professional skills for social work, while integrating a liberal arts base consistent with the mission of Southwestern Adventist University.

## ACCREDITATION

The Social Work program is accredited by the Council on Social Work Education, a specialized accrediting body recognized by the Council on Postsecondary Accreditation.

## ADMISSION

Students seeking admission into the Social Work Program must:

1. Have completed all general admission requirements and be accepted to the University.
2. Have completed SOWK 112, Introduction to the Field of Social Work, SOWK 221, History and Policy of Social Institutions, and SOWK 331, Strength in Diversity with a GPA of 2.5;
3. Submit an application to the Social Work Department. Application forms are available in the Social Work office;
4. Have an overall GPA of 2.5;
5. Submit three reference forms by employers, educators or professional colleagues which attest to the professional competence or scholastic ability, emotional stability and physical health of the student;
6. Have successfully completed the following liberal arts courses: BIOL 104 and 105, ENGL 220, HIST 111 or 112, PSYC 212 and SOCI 111.

For currently enrolled students, these materials must be submitted no later than April 15, the year of admission. The Social Work faculty meets during the last week in April to review all applications to the program.

Transfer students may apply to the program after their enrollment at Southwestern Adventist University during their first semester at the University.

The Admissions Committee uses the following criteria as a basis for acceptance into the Social Work program: a completed application form, transcripts indicating adherence to the GPA standards and completion of prerequisites, and three letters of reference. These forms are available in the Social Work office. Additionally, input from agency supervisors with whom students completed volunteer hours will be solicited.

Students expecting to enroll in field practicum must apply at least one semester prior to enrollment. The Social Work Program requires completion of 500 clock hours of field practicum at an approved agency. Transportation for field practicum is the responsibility of the student. Enrollment in field practicum, seminar, and methods courses are restricted to social work majors.

Further details and information regarding the social work curriculum are available from the Social Work Department.

## RETENTION POLICY

Students admitted to the Southwestern Adventist University Social Work Program are retained in the major, subject to the following "Criteria for Retention."

1. Maintaining an overall GPA of 2.5.
2. Adherence to the National Association of Social Worker's Code of Ethics.
3. Maintenance of social functioning that allows for effective beginning level professional social work practice. (*Social functioning refers to the students' ability to cope with the demands generated by their interaction with their environment including areas such as school, work, family, and personal relationships.*)
4. Demonstration of effective verbal and written communication skills.
5. Continued enrollment as a student in good standing at SWAU.

Students who do not conform to the Criteria for Retention may be terminated from the program.

## Social Work, B.S.W.

### General Education Requirements:

See page 36 for a description of regular General Education requirements. The mathematics, one science course requirement, and two of the social science and humanities requirements are met through the cognate requirements.

### Major Requirements:

#### Social Welfare Policies and Services:

SOWK 112	Introduction to the Field of Social Work	3
SOWK 221	Foundations of Social Welfare Policy	3
SOWK 240	Introduction to Community Services	2
SOWK 434	Social Welfare Policy	3

#### Human Behavior and the Social Environment:

SOWK 331	Strength in Diversity	3
SOWK 332	Human Behavior and Social Environment I	3
SOWK 333	Human Behavior and Social Environment II	3

#### Social Research:

SOWK 460	Applied Social Research Methods	3
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#### Social Work Practice:

SOWK 336	Social Work Intervention I	3
SOWK 337	Social Work Intervention II	3
SOWK 339	Families and Children	3
SOWK 438	Social Work Intervention III	3

#### Social Work Ethics:

SOWK 222	Values and Ethics for the Helping Professions	3
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#### Field Practicum:

SOWK 470	Integrative Field Seminar I	2
SOWK 474	Field Practicum I	5
SOWK 471	Integrative Field Seminar II	2
SOWK 475	Field Practicum II	5
	Departmentally Approved Electives	2
	<b>TOTAL</b>	<b>52</b>

# Social Work

## Required Cognates:

Social Work is a composite major and does not require a minor.

BIOL	104	Human Biology .....	4
BIOL	105	Human Biology .....	4
ECON	211	Macroeconomics .....	3
POLS	211	National and Texas Constitution .....	3
HIST	111		
or HIST	112	American History .....	3
MATH	241*	Intro to Probability & Statistics .....	3
PSYC	212	General Psychology .....	3
SOCI	111	Introduction to Sociology .....	3

\*MATH 110 or a MPT score of 4 is prerequisite for this class.

## Departmentally Approved Electives:

PSYC	220	Human Growth and Development .....	3
PSYC	244	Courtship, Marriage, and Family .....	3
PSYC	320	Parenting Skills .....	3
PSYC	322	Adolescent Psychology .....	3
PSYC	326	Exceptional Children .....	3
SOWK	338	Conflict Resolution .....	3
SOWK	335	Health Care and Social Work .....	3
PSYC	340	Abnormal Psychology .....	3
PSYC	360	Personality Theory and Development .....	3
PSYC	450	Psychology of Adulthood and Aging .....	3
PSYC	470	Counseling Theory and Techniques .....	3
SOCI	334	Juvenile Delinquency .....	3
BUAD	301	Principles of Management .....	3
BUAD	372	Human Resources Management .....	3
BUAD	423	Organizational Behavior .....	3

## CURRICULUM - SEQUENCE OF COURSES

First Year		1st Sem	2nd Sem
*UNIV	101	University Success .....	1
MATH	110	College Algebra .....	3
*RLGN		Religion Elective .....	3
*COMM		Speech Elective .....	3
<b>SOWK</b>	<b>112</b>	<b>Intro to Social Work .....</b>	<b>3</b>
#HLED	111	Health and Wellness .....	3
*ENGL	121	Freshman Composition.....	3
<b>+PSYC</b>	<b>212</b>	<b>General Psychology .....</b>	<b>3</b>
<b>+SOCI</b>	<b>111</b>	<b>Introduction to Sociology .....</b>	<b>3</b>
CSIS/OFIS		Computer Elective .....	3
<b>+SOWK</b>	<b>240</b>	<b>Intro to Community Service .....</b>	<b>2</b>
<b>HIST 111 or 112</b>		<b>American History .....</b>	<b>3</b>
		Elective .....	2
		Total Semester Hours	16 15

Second Year		1st Sem	2nd Sem
<b>+ECON</b>	<b>211</b>	<b>Economics .....</b>	<b>3</b>
<b>+GOVT</b>	<b>211</b>	<b>National and Texas Constitutions</b>	<b>3</b>
<b>+BIOL</b>	<b>104</b>	<b>Human Biology .....</b>	<b>4</b>
<b>+SOWK</b>	<b>221</b>	<b>Foundations of S. W. Policy .....</b>	<b>3</b>
<b>RLGN</b>		<b>Electives .....</b>	<b>3</b>
<b>+ENGL</b>	<b>220</b>	<b>Research and Professional Writing.....</b>	<b>3</b>
*HIST		Non-American History .....	3
+BIOL	105	Human Biology .....	4
<b>+SOWK</b>	<b>331</b>	<b>Strength in Diversity .....</b>	<b>3</b>
<b>*SOWK</b>	<b>222</b>	<b>Values and Ethics.....</b>	<b>3</b>
RLGN		Religion Elective .....	3
		Total Semester Hours	16 16

Third Year		1st Sem	2nd Sem
<b>+SOWK</b>	<b>332</b>	<b>HBSE I .....</b>	<b>3</b>
<b>+SOWK</b>	<b>336</b>	<b>Social Work Intervention I .....</b>	<b>3</b>
<b>+MATH</b>	<b>241</b>	<b>Statistics .....</b>	<b>3</b>
*ENGL		Literature Elective .....	3
*RLGN		Religion Elective .....	3
*PEAC		P.E. Elective .....	1
<b>+SOWK</b>	<b>333</b>	<b>HBSE II .....</b>	<b>3</b>
<b>+SOWK</b>	<b>334</b>	<b>Advanced Social Welfare Policy .....</b>	<b>3</b>
<b>+SOWK</b>	<b>337</b>	<b>Social Work Intervention II .....</b>	<b>3</b>
<b>+SOWK</b>	<b>339</b>	<b>Families and Children .....</b>	<b>3</b>
		Electives .....	6
		Total Semester Hours	16 16

Fourth Year		1st Sem	2nd Sem
<b>+SOWK</b>	<b>438</b>	<b>Social Work Intervention III .....</b>	<b>3</b>
<b>+SOWK</b>	<b>460</b>	<b>Applied Social Research Methods ..</b>	<b>3</b>
<b>+SOWK</b>	<b>470</b>	<b>Integrative Field Seminar I .....</b>	<b>2</b>
<b>+SOWK</b>	<b>474</b>	<b>Field Practicum I .....</b>	<b>5</b>
*RLGN		Religion Elective (u.d.) .....	3
<b>+SOWK</b>	<b>471</b>	<b>Integrative Field Seminar II .....</b>	<b>2</b>
<b>+SOWK</b>	<b>475</b>	<b>Field Practicum II .....</b>	<b>5</b>
		Electives .....	9
		Total Semester Hours	16 16
		TOTAL HOURS	129

\* College requirement

+ Social Work requirement

# Recommended course

**Bold** = Sequenced course



# Social Work

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## COURSES

### **SOWK 112 Introduction to the Field of Social Work** 3 hours

An introduction to the development of the social work profession, intervention services and values. This course introduces the student to the field of generalist social work. Open to non-majors. (Fall)

### **SOWK 221 Foundations of Social Welfare Policy** 3 hours

A study of the historical development of social welfare programs, practices, and policies with an emphasis upon pluralism in the American political economy and an explanation of diverse perspectives on America's response to human need. (Fall)

### **SOWK 222 Values and Ethics for the Helping Professions** 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. (Also taught as PSYC 222.) (Spring)

### **SOWK 240 Introduction to Community Services** 2 hours

Prerequisite: Permission of department chair.

Designed as an introduction to community-based social services, this course provides students with the opportunity to gain exposure to the needs and issues of at-risk populations and to be evaluated prior to formal acceptance into the social work program. Students will provide six clock hours per week in a designated local social services setting. A passing grade will be determined by: 1) input from the setting supervisor, 2) completion of the required service hours, 3) and submission of a reaction paper in summary of the student's experience in the service setting. Pass/fail course. (Spring)

### **SOWK 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.

### **SOWK 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. (Also taught as SOCI 331.) (Spring)

### **SOWK 332 Human Behavior and Social Environment I** 3 hours

Prerequisite: BIOL 104; PSYC 212; SOCI 111 & 331; SOWK 112.

A study of the biological, psychological, social, cultural, and spiritual foundations of human development; their interrelatedness for normal and abnormal behavior from infancy through adolescence. The life-span is examined using a systems approach and focuses on social and family systems, groups, and communities. (Fall)

### **SOWK 333 Human Behavior and Social Environment II** 3 hours

Prerequisite: SOWK 112

A continuation of SOWK 332. A study of biological, psychological, social, cultural, and spiritual foundations of development; their interrelationship for normal and abnormal behavior from young adulthood through old age, and social functioning in social environments. (Spring)

### **SOWK 335 Health Care and Social Work** 3 hours

Prerequisite: SOWK 112, SOWK 221

This course provides the student with an overview of the issues and challenges facing American health care in the 21st century. The role of the social worker is examined across the practice settings of acute care, long-term and restorative care, mental health care, and hospice care. Students will be introduced to the importance of developing collaborative models of practice in the multi-disciplinary setting including orientation to the roles of physicians, nurses, pastoral clergy, and ancillary therapies. (Spring, odd years)

### **SOWK 336 Social Work Intervention I** 3 hours

Prerequisite: SOWK 112.

Corequisite: SOWK 332.

An introduction to generalist social work practice with emphasis on individuals and families. Social work with groups, communities and organizations will also be discussed. This is the first practice course in the Social Work Practice Sequence. It introduces the student to beginning intervention methods of the generalist Social Worker. The student is introduced to the process engagement, data collection, assessment, intervention, evaluation and termination. Basic interviewing and communication skills are emphasized. (Fall)

### **SOWK 337 Social Work Intervention II** 3 hours

Prerequisite: SOWK 336.

Corequisite: SOWK 333.

A continuation of generalist social work intervention methods, with an in-depth study of the problem-solving directed toward groups. The group process is stressed. (Spring)

### **SOWK 338 Conflict Resolution: Practical Skills for Peacemaking** 3 hours

Courses recommended: 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. (Also taught as PSYC 338.) (Spring, even years)

# Social Work

## **SOWK 339 Families and Children**

**3 hours**

Prerequisite: SOCI 11, PSYC 212

This course utilizes the strength-based and person-in-environment approaches to examining the challenges faced by families and at-risk children in contemporary American society including domestic violence, addictions, and juvenile delinquency. Emphasis will be given to further developing the student's ability to design, implement, and evaluate effective family interventions. Attention will be given to understanding nontraditional as well as culturally diverse family structures, roles, and expectations. The course is open to all majors. (Spring)

## **SOWK 434 Social Welfare Policy**

**3 hours**

Prerequisite: SOWK 112, 221; HIST 111 or 112; ECON 211, POLS 211.

An in-depth examination of the formation and administration of federal, state, and local social welfare policies. Emphasis will be given to the impacts of social policy on minorities and at-risk populations. Trends in social policy formation will also be analyzed including the rise of faith-based organizations and initiatives in addressing human need. (Spring)

## **SOWK 438 Social Work Intervention III**

**3 hours**

Prerequisite: SOWK 337.

Corequisites: SOWK 470, 474.

This is the final course within the practice sequence. Intervention III assists the student in developing a more in-depth knowledge, value, and skill base when working with communities and institutions. Students will be exposed to the impact of these systems on persons most at risk of oppression as preparation for entry into generalist social work practice. Students will interface with Agency/Community/Institutional Personnel through in-class participation and assigned projects. (Fall)

## **SOWK 460 Applied Social Research Methods**

**3 hours**

Prerequisite: MATH 241, ENGL 220.

An introduction to applied research methods and their applications to the disciplines of Social Work, Criminal Justice and Law Enforcement, Physical Education, Psychology, and Sociology. 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 meets the upper division writing component for senior year English.** (Also taught as CJLE, HIST, PETH, PSYC, or SOCI 460.) (Fall)

## **SOWK 470 Integrative Field Seminar I**

**2 hour**

Prerequisites: SOWK 333, 334, 337.

Corequisite: SOWK 474.

Assists students in strengthening and integrating their various field experiences. Examines the dynamics of actual practice while utilizing classroom knowledge. (Fall)

## **SOWK 471 Integrative Field Seminar II**

**2 hour**

Prerequisite: SOWK 470.

Corequisite: SOWK 474.

A continuation of SOWK 470 with emphasis on future professional career planning. (Spring)

## **SOWK 474 Field Practicum I**

**5 hours**

Prerequisite: SOWK 333, 334, 337.

Corequisite: SOWK 470.

A laboratory course designed to provide the student with supervised field practice in an approved agency selected by the University. (Fall)

## **SOWK 475 Field Practicum II**

**5 hours**

Prerequisite: SOWK 474.

Corequisite: SOWK 471 (seminar).

A continuation of SOWK 474, in the same agency. Students demonstrate use of the general problem-solving method with more depth and independence. (Spring)

## **SOWK 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 3 credits.

# Trustees

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Max A. Treviño, Chair — 2009 .....	Burleson, Texas
Deryl Knutson, Vice Chair — 2005 .....	Burleson, Texas
Donald R. Sahly, Secretary — 2005 .....	Keene, Texas
Mardian Blair — 2005 .....	Orlando, Florida
Harold Collum — 2005 .....	Dallas, Texas
James East — 2005 .....	Keene, Texas
Steve Gifford — 2009 .....	Alvarado, Texas
Sam Green — 2009 .....	Burleson, Texas
Virginia Hayes — 2005 .....	Fort Worth, Texas
B. E. Leach, Honorary Member .....	Keene, Texas
Charles Leffler — 2009 .....	Scottsdale, Arizona
Juanita Hurst Manske — 2005 .....	Shattuck, Oklahoma
John McKinney — 2005 .....	Albuquerque, New Mexico
John Moyer — 2005 .....	Oklahoma City, Oklahoma
Steve Orian — 2005 .....	Shreveport, Louisiana
Ruben D. Pechero — 2009 .....	McAllen, Texas
Ed Reifsnyder — 2009 .....	Arlington, Texas
Barry Siebenlist — 2009 .....	Killeen, Texas
Robert Smith — 2005 .....	Cleburne, Texas
James Stevens — 2009 .....	Albuquerque, New Mexico
Arlene Tucker — 2005 .....	Keene, Texas
Douglas Walker — 2009 .....	Burleson, Texas
Pete Weber — 2005 .....	Fort Worth, Texas
Tom Werner — 2009 .....	Orlando, Florida
Billy Wright — 2009 .....	Dallas, Texas
Dan Zacharias — 2005 .....	Keene, Texas

# Administration

## OFFICERS OF ADMINISTRATION

Donald R. Sahly, Ed.D. .... President  
Thomas G. Bunch, Ed.D. .... Vice President for Academic  
Administration, Graduate Dean, Accreditation Liaison  
Larry W. Garrett, B.S. .... Vice President for Financial  
Administration

## ADMINISTRATIVE SERVICES

Sandie Adams, A.S. .... Assistant Financial Aid Director  
Jeff Anderson, B.S. .... Recruiter  
Debbie Battin, B.S. .... Director of Marketing  
Tina Bottsford, B.S. .... Director of Enrollment  
Danna Burt, B.S. .... Registrar  
Cristina Thomsen, M.A. .... Librarian  
Lane Campbell, M.Div. .... Chaplain  
Fred Harder, Ph.D. .... Vice President for Enrollment,  
Marketing and Public Relations  
Charlotte Henderson .... Director of Development  
David Knight, M.A. .... Vice President for Student Services  
Charles Lewis, B.A. .... Director of Technology and  
Information Services  
Ronald Macomber, B.S. .... Director of Network Services  
Teresa Macomber, M.S.W. .... Student Accounts Advisor  
Lorena Marin, B.S. .... Assistant Registrar  
Beverly Mendenhall, B.S. .... Alumni Relations Director  
Perry Munger IV, B.S. .... Administrative Computer Director  
Patricia Norwood .... Assistant Vice President for Financial  
Administration, Student Finance  
Larry Philbeck, Ed.D. .... Director of the Adult Degree Program  
Jerry Potter, M.B.A. .... Assistant Student Accounts Director  
Marsha Rasmussen, A.M.L.S. .... Associate Librarian  
Brenda Schnell, B.S. .... Director of Admissions  
Steve Stafford, M.Ed. .... Director of Counseling and Testing Center,  
Director of Retention  
Jennifer Thompson, B.S. .... Database Administrator  
Robert Thompson, B.S. .... Systems Administrator  
Lawrence Turner, Ph.D. .... Director of Institutional Effectiveness  
Sharon Wicker, B.B.A. .... Accountant  
Greg Wicklund, B.S. .... Assistant Vice President for  
Financial Administration  
Sharon Wion, M.L.S. .... Associate Librarian  
Edna Yanez, M.B.A. .... Cashier

## CAMPUS SERVICES

Randell Chastain, B.S. .... Bookstore and Media Services  
Bob Hadley, B.S. .... Student Health Services  
Dale Hainey .... Physical Plant Director  
Donna Morrison .... Custodial Director  
Robby Psencik .... Director of Housing, Student Employment,  
Transportation, Security, Grounds  
James The, B.S. .... Dean of Men  
Darla Sullivan .... Assistant Director of Food Service  
Greg Sullivan, B.S. .... Director of Food Service  
Janelle Williams, B.S. .... Dean of Women

# Faculty

## EMERITI FACULTY/ADMINISTRATION

Clinton J. Anderson, M.A. .... Librarian  
B.A., Andrews University; M.A.T., Andrews University.

Harold T. Burr, M.A. .... Religion  
B.A., Union College; M.A., Andrews University.

Robert Cooper, M.S. .... Librarian  
B.S., Columbia Union College; M.S., in Library Science, University of Southern California.

Laurice Durrant, Ed.D. .... Nursing  
B.S., Nursing Union College; Masters, Health Ed., Stanford University; Ed.D., Stanford University.

Morris Lowry, M.A. .... History  
B.A., Pacific Union College; M.A., Texas Christian University; M.A., Seventh-day Adventist Theological Seminary. Additional graduate study at University of Colorado, Texas Christian University.

Frances S. Mosley, Ph.D. .... Education and History  
B.A., University of the Americas, Mexico; M.A., Sam Houston State University; Ph.D., Texas A&M University.

Ruth A. Nelson Foll, M.A. .... Secretarial Science  
B.A., Washington Missionary College; M.A., Northwestern University.

Richard Norman, M.A. .... Communication  
B.A., La Sierra University; M.A., University of Redlands.

Carl Pinterich, Ed.D. .... Education  
B.S., Columbia Union College; M.A., Andrews; Ed.D., Baylor University.

Shirley Pinterich, M.S. .... Nursing  
B.S., Columbia Union College; M.S., Texas Woman's University.

Marie Redwine, Ph.D. .... Academic Vice President  
B.S., Union College; M.S., Northern Illinois University; Ph.D., Texas Woman's University.

Herbert J. Roth, Ph.D. .... English  
B.A., Columbia Union College; M.A., University of Maryland; Ph.D., Texas Christian University.

Carol Sample, Ph.D. .... English  
B.A., Union College; M.A., East Tennessee State University; Ph.D., Texas Christian University. Additional graduate study at University of Maryland.

Charles M. Underhill, Ed.D. .... Professor of Education/Religion, 1961  
B.A., Union College; M.A., Colorado State College of Education; Ed.D., Texas A&M University.

Arthur L. White, M.B.A. .... Business Administration  
B.S., Walla Walla College; M.B.A., University of Washington. Additional graduate study at University of Washington.

## TEACHING FACULTY

Lavonne Adams, Ph.D. .... Associate Professor of Nursing, 1999  
B.S.N., Wright State University; M.S., Andrews University; Ph.D., Andrews University.

R. Mark Aldridge, M.A. .... Assistant Professor of Psychology, 2003  
B.S., Southwestern Adventist University; M.A., Andrews University.

Jean Alway, M.S.N. .... Assistant Professor of Nursing, 1995  
B.S., Loma Linda University; M.S.N., University of New Mexico.

David R. Anavitarte, M.A. .... Assistant Professor of Music, 1991  
B.S., Columbia Union College; M.A., Indiana University of Pennsylvania.

William K. Atkins, Ph.D. .... Professor of Physics, 2001  
B.Sc., North Carolina State University; M.B.A., University of Phoenix; Ph.D., North Carolina State University.

Luz Arauzo, M.A. .... Assistant Professor of Modern Languages, 1979  
B.A., University of Texas at Austin; M.A., Texas Christian University.

Rod Bussey, M.Ed., .... Assistant Professor of Physical Education, 2002  
B.Ed., Canadian University College; M.Ed., Azusa Pacific University.

Randall R. Butler, Ph.D., M.A. .... Professor of History, 1996  
B.A., Walla Walla; M.A., Loma Linda University; Ph.D., Brigham Young University; M.L.I.S., Brigham Young University; M.A., University of Texas at Arlington. Additional graduate study at the University of Michigan.

Carol Campbell, Ph.D. .... Associate Professor of Education, 2002  
B.S., Walla Walla College; M.Ed., Texas Christian University; Ph.D., University of North Texas.

Arthur V. Chadwick, Ph.D. .... Professor of Biology and Geology, 1984  
B.A., La Sierra College; Ph.D., University of Miami. Additional graduate study at the University of California.

Jerry L. Chi, Ph.D., Ph.D. .... Associate Professor of  
Business Administration, 1996  
B.A., B.A., Taiwan Adventist College; M.B.A., Andrews University; Ph.D., Andrews University; Ph.D., Illinois State University.

Watson L. Chin, Ph.D. .... Professor of Mathematics, 1973  
B.A., Andrews University; M.A., Ohio State University; Ph.D., Illinois Institute of Technology.

R. Edwin Connell, M.S. .... Associate Professor of  
Computer Science, 1989  
B.A., Union College; M.S., Andrews University.

Murray Cox, M.A. .... Assistant Professor of Mathematics, 2001  
B.A., Union College; M.A., University of California at Riverside.

Renard K. Doneskey, Ph.D. .... Professor of English, 1999  
B.A., Southwestern Adventist College; M.A., Andrews University; Ph.D., University of California.

Robert M. Durkin, M.D. .... Assistant Professor of  
Computer Science, 2000-2001, 2004  
B.S., Southwestern Adventist College; M.S., Nova Southeastern University; M.D., Loma Linda University.

Michael G. England, Ed.D. .... Associate Professor of Education, 1996  
B.S., Andrews University; M.A., Western Carolina University; M.Ed., Walla Walla College; Ed.D., Andrews University.

Meriam Fabriga, M.S. .... Assistant Professor of Nursing, 1992  
B.S., Mountain View College; M.S., Philippine Union College.

Rob Gettys, M.A., .... Assistant Professor of Physical Education, 2002  
B.S., Southern Adventist University; M.A., Andrews University.

Randy Gilliam, Ed.D. .... Professor of Education, 1998  
B.S., Colorado University; M.Ed., Central State University; Ed.D., Oklahoma University.

Bonnie Gnad, M.S.N. .... Associate Professor of Nursing, 1988  
B.S., Union College; M.S., Washington University, Graduate work University of North Texas.

Kirsten Harrington, Ph.D. .... Assistant Professor of  
Business Administration, 2000  
B.A., Harvard University; M.A., Tulane University; J.D., University of Idaho, Ph.D., University of Nebraska.

Barbara R. Harsany, M.S. .... Associate Professor of PE/Wellness, 1977  
B.S., Walla Walla College; M.S., University of Southern California.



# Faculty

- Krystal Hauff, M.Ed. .... Assistant Professor of PE/Wellness, 2000  
B.S., Pacific Union College; M.Ed., University of Nebraska.
- Phil Hieger, M.S.W. .... Associate Professor of Social Work, 1998  
B.S.W., Andrews University; M.S.W. Andrews University; M.P.A., Western Michigan University.
- Willie Hucks, M.Div. .... Associate Professor of Religion, 1999  
B.A., Oakwood College; M.Div., Andrews University.
- R. Steven Jones, Ph.D. .... Associate Professor of History, 1997  
B.A., Northern Oklahoma State University; M.A., Oklahoma State University; Ph.D., Oklahoma State University
- William L. Kilgore, D.Min. .... Professor of Religion, 1989  
B.A., Columbia Union College; M.Div., Andrews University; D. Min., Southwestern Baptist Theological Seminary.
- Karl Konrad, Ph.D. .... Professor of Chemistry, 1968  
B.A., Andrews University; M.S., Illinois Institute of Technology; Ph.D., Illinois Institute of Technology.
- Judy Myers Laue, Ph.D. .... Associate Professor of English, 2000  
B.A., Andrews University; M.A., Andrews University; Ph.D., University of Southern California.
- Tania Lopez, M.S. .... Assistant Professor of Nursing, 2002  
B.S., University of Texas at Arlington; M.S., Texas Women's University.
- Robert L. McChesney, Ed.D. .... Professor of  
Business Administration, 1997  
B.A., Walla Walla College; M.A., Andrews University; Ed.D., University of Northern Colorado.
- Richard L. McCluskey, Ph.D. .... Professor of Biology, 1964-1978, 1997  
B.A., Andrews University; M.A., Walla Walla College; Ph.D., University of North Texas.
- Joyce L. Melius, M.S.N. .... Assistant Professor of Nursing, 1996  
B.S.N., Southwestern Adventist University; M.S.N., University Texas at Arlington.
- Robert R. Mendenhall, Ph.D. .... Professor of Communication, 1970  
B.S., Pacific Union College; M.A., Texas Christian University; Ph.D., University of Texas at Austin.
- Mitchell Menzmer, Ph.D. .... Professor of Chemistry, 2000  
B.S., Pacific Union College; Ph.D., Clarkson University.
- Judith Foll Miles, M.A. .... Associate Professor of  
Business Administration/Computer Science, 1979  
B.S., Andrews University; M.A., Loma Linda University.
- Penny K. Moore, Ph.D. .... Professor of Nursing, 1978-1982, 1996  
B.S.N., University of Texas at Houston; M.S.N., University of Texas at Arlington; Ph.D., Texas Woman's University.
- Daniel Petr, Ph.D. .... Professor of Biology, 1982  
B.S., Andrews University; M.A., Andrews University; Ph.D., University of North Texas.
- Larry G. Philbeck, Ed.D. .... Associate Professor of Education, 1994  
B.A., Southwestern Adventist University; M.A., University of Arkansas; Ed.D., University of Arkansas.
- Glendal P. Robinson, M.A. .... Associate Professor of  
Communication, 1998  
B.A., Pacific Union College; M.A., California State University, Ph.D., University of North Texas.
- Nancy Rodriguez, M.S.W. .... Assistant Professor of Social Work, 1999  
B.S., Southwestern Adventist College; M.S.W., University of Texas at Arlington.
- Marcel Sargeant, Ph.D. .... Assistant Professor of Education, 2002  
B.S., University of Guyana; M.A., Andrews University; Ph.D., Andrews University.
- Erwin Sicher, Ph.D., Ph.D. .... Professor of Education and  
Social Sciences, 1976  
B.A., Atlantic Union College; M.A., Pacific Union College; Ph.D., University of Southern California; Ph.D., Texas Woman's University.
- Ingo Sorke, M.Div. .... Assistant Professor of Religion, 2000  
B.A., Southwestern Adventist College; M.Div., Andrews University.
- Allen Stembridge, Ed.D. .... Professor of Business, 2002  
B.Comm., University of South Africa; M.B.A., Andrews University; Ed.D., Andrews University.
- Hoyet Taylor, M.S. .... Assistant Professor of Biology, 2001  
B.S., Southwestern Adventist College; M.S., Eastern Washington University.
- Daryl D. Thomas, Ph.D. .... Professor of Computer Science, 1995  
B.S., Louisiana State University; Ph.D., Louisiana State University.
- Catherine K. Turner, Ph.D. .... Professor of Nursing, 1996  
B.S., Columbia Union College; M.S.N., University of Tennessee; Ph.D., Andrews University.
- Lolita Valdez, M.S. .... Assistant Professor of Nursing, 1991  
B.S.N., Mountain View College; M.S., University of Philippines.
- Eudora Williams, M.S.N. .... Assistant Professor of Nursing, 2001  
B.S.N., Oakwood College; M.S.N., University of Alabama at Huntsville.
- Edith Willis, M.A. .... Assistant Professor of ESL Program, 1992  
B.A., Avondale College; M.A., Andrews University; M.A., University of North Texas; A. Mus. A., Australian Music Ex. Board; L.T.C.L., London Trinity College of Music
- Lloyd A. Willis, Ph.D. .... Professor of Religion, 1989  
B.A., Pacific Union College, Avondale Campus; M.A., Andrews University; Ph.D., Andrews University.
- Andrew P. Woolley III, Ph.D. .... Professor of English, 1978  
B.A., Southern Missionary College; M.A., Andrews University; Ph.D., University of Tennessee.

## ADJUNCT FACULTY

### Business Administration

- Fred Harder, Ph.D. .... Economics  
Radhamés Lizardo, M.B.A., C.P.A. .... Finance & Accounting  
L. Jerome McGill, Ph.D. .... Business  
Art White, M.B.A. .... Accounting

### Communication

- Dixil Rodriguez, M.A. .... Communication

### Education & Psychology

- Bonnie Gnadt, M.S.N. .... Psychology

### English

- Donna Guerrero, M.Ed. .... English  
Herbert Roth, Ph.D. .... English

# Faculty

## Southwestern Union Conference of Seventh-day Adventists

Doug Walker, M.A. .... Director of Education

## Arkansas-Louisiana Conference of Seventh-day Adventists

..... Assistant in Supervision

## Oklahoma Conference of Seventh-day Adventists

Jack Francisco, M.Ed. .... Assistant in Supervision

## Southwest Region Conference of Seventh-day Adventists

Eunice Warfield, M.A. .... Assistant in Supervision

## Texas Conference of Seventh-day Adventists

Darrell Beyer, Ed.D. .... Assistant in Supervision

Lyle Hansen, Ed.D. .... Assistant in Supervision

## Texico Conference of Seventh-day Adventists

Chuck Workman .... Assistant in Supervision

## Fine Arts, Art & Music

John Boyd, D.A. .... Music

Mugur Doroftei, Ph.D. .... Music

Timothy Scholl, M.A. .... Music

Teri Seiler, B.S. .... Music

Charles Vaner, M.F.A. .... Art

## History, Social Science, & Criminal Justice

### including Modern Languages

Jerry Benjamin, M.S. .... Geography

Sheryl Harrison, J.D. .... Criminal Justice

Ted Phillips, M.S. .... Sociology

Gary Reeves, M.C.J. .... Criminal Justice

Bobby Whitmire, M.S. .... Criminal Justice

## Medical Technology

### Andrews University — Berrien Springs, Michigan

E. Arthur Robertson, M.D. .... Medical Director, Program  
for Clinical Laboratory Sciences

Marcia A. Kilsby, M.S., M.T. (ASCP), CLS (NCA) .... Chair & Program  
Director, Allied Health Department

Albert W. McMullen, M.A., M.T. (ASCP) .... Hematology Professor

Richard D. Show, M.S., M.T. (ASCP) SC, DLM .... Clinical Chemistry  
Professor, Program Director of MS in Clinical Laboratory Science

Clifford A. Sutherland, B.S., M.T. (ASCP) SM .... Microbiology  
Professor

### Florida Hospital — Orlando, Florida

Luis Guarda, M.D. .... Medical Director, School of  
Medical Technology

Patricia L. Rogers, B.S., M.T., (ASCP) SBB .... Program Director,  
School of Medical Technology

### Tarleton State University — Fort Worth, Texas

Karen Murray, M.B.A., M.T., (ASCP) SC .... Program Director, School of  
Medical Technology

Sally Lewis, M.S., M.T. (ASCP) HTL .... Instructor

Donna Mitchell, Ph.D., M.T. (ASCP) SM .... Instructor

David Morton, M.T. (ASCP) .... Lecturer/Laboratory Manager

Virginia Reyes, M.T. (ASCP) SBB .... Instructor

Patricia Smith, M.T. (ASCP) SH .... Instructor/Student Coordinator

## Physical Education, Wellness

Ernie Drapiza, B.S. .... Physical Education

Terry Emery, M.S. .... Physical Education

Barry Gattys, B.S. .... Physical Education

Kent Tucker, M.S. .... Wellness

## Religion

Russ Laughlin, M. Div. .... Religion

Tim Peterson, D.Min. .... Religion

Theodore Stewart, M. Div. .... Religion

George Reid, Th.D. .... Religion

## Social Work

### Cancer Care

Barbara West, L.M.S.W. .... Field Instructor

### Child Protective Services

Linda Erlinson, B.S.W. .... Field Instructor

### Cook Children's Hospital

Elizabeth Page, M.S.S.W. .... Field Instructor

### Domestic Violence Diversion Program

Jennifer Staples .... Field Instructor

### Harvest House

Trickett Mayo, B.S.W. .... Field Instructor

### Hopes and Dreams

Ingred Shadow, M.S.W. .... Field Instructor

### Huguley Nursing Center

Lucy Mendoza, L.S.W. .... Field Instructor

### John Peter Smith Hospital

Kathy Specht, M.S.W. .... Field Instructor

### Johnson County Family Services

Jerry Vaughn .... Field Instructor

### Federal Medical Center Prison

Melissa Owen, L.M.S.W. .... Field Instructor

### S.A.V.E. Program

Mary Baudrau, L.M.S.W. .... Field Instructor

# Departments

---

*First name listed is chair.*

## **Department of Biology including Medical Technology**

Arthur Chadwick, Ph.D.  
Richard L. McCluskey, Ph.D.  
Dan Petr, Ph.D.  
Hoyet Taylor, M.S.

## **Department of Business Administration**

Allen Stembridge, Ed.D.  
Jerry L. Chi, Ph.D.  
Kristen Harrington, Ph.D.  
Robert L. McChesney, Ed.D.  
Judith Miles, M.A.

## **Department of Communication**

Robert R. Mendenhall, Ph.D.  
Glendal P. Robinson, Ph.D.

## **Department of Computer Science**

Daryl D. Thomas, Ph.D.  
Ed Connell, M.S.  
Rob Durkin, M.D.  
Judith Miles, M.A.

## **Department of Education & Psychology**

Randy Gilliam, Ed.D.  
Mark Aldridge, M.A.  
Carol Campbell, Ph.D.  
Michael England, Ed.D.  
Marcel Sargeant, Ph.D.

## **Department of English**

Judy Myers Laue, Ph.D.  
Renard Doneskey, Ph.D.  
Andrew Woolley III, Ph.D.

## **Department of Fine Arts/Art, Music**

David Anavitarte, M.A.  
John Boyd, D.A.  
Mugur Doroftei, Ph.D.  
Timothy Scholl, M.A.

## **Department of History, Social Sciences, & Criminal Justice including Modern Languages**

R. Steven Jones, Ph.D.  
Luz Arauzo, M.A.  
Randall R. Butler, Ph.D.  
Erwin Sicher, Ph.D.  
Edith Willis, M.A.

## **Department of Mathematics & Physical Sciences including Chemistry, Physics**

Karl Konrad, Ph.D.  
Bill Atkins, Ph.D.  
Watson Chin, Ph.D.  
Murray Cox, M.A.  
Mitch Menzmer, Ph.D.

## **Department of Nursing**

Penny K. Moore, Ph.D.  
Lavonne Adams, Ph.D.  
Jean Alway, M.S.N.  
Meriam Fabriga, M.S.  
Bonnie Gnadt, M.S.N.  
Tania Lopez, M.S.  
Joyce Melius, M.S.N., C.N.P.  
Catherine K. Turner, Ph.D.  
Lolita Valdez, M.N.  
Eudora Williams, M.S.N.

## **Department of Physical Education, Wellness**

Barbara R. Harsany, M.S.  
Rod Bussey, M.Ed.  
Rob Gettys, M.A.  
Krystal Hauff, M.S.

## **Department of Religion**

Lloyd Willis, Ph.D.  
William Kilgore, D.Min.  
Willie Hucks, M.Div.  
Ingo Sorke, M.Div.

## **Department of Social Work**

Phil Hieger, L.M.S.W., C.S.W.M.  
Nancy Rodriguez, M.S.W.

# Committees

---

## COMMITTEES OF THE FACULTY

For the Academic Year 2004-2005

*First name listed is chair. All University officers are ex-officio members of all committees, standing and ad hoc.*

### Academic Policies

Tom Bunch, David Anavitarte, Danna Burt, Arthur Chadwick, Renard Doneskey, Randy Gilliam, Barbara Harsany, Phil Hieger, Steve Jones, Karl Konrad, Judy Myers Laue, Robert Mendenhall, Penny Moore, Larry Philbeck, Allen Stembridge, Daryl Thomas, Cristina Thomsen, Lloyd Willis, Student Senate President.

### Administrative Council

Donald R. Sahly, Tom Bunch, Danna Burt, Larry Garrett, Fred Harder, Charlotte Henderson, David Knight, Patricia Norwood, Larry Turner, Greg Wicklund.

### Administrative Services Committee

Donald R. Sahly, Tom Bunch, Danna Burt, Randy Butler, Lane Campbell, Randell Chastain, Larry Garrett, Dale Hainey, David Knight, Patricia Norwood, Steve Stafford, Greg Sullivan, James The, Larry Turner, Greg Wicklund, Janelle Williams, student.

### Admissions

Fred Harder, Tom Bunch, Danna Burt, Murray Cox, Patricia Norwood, Ingo Sorke, Glen Robinson, Brenda Schnell, Steve Stafford, James The, Lolita Valdez, Janelle Williams, student.

### Adult Degree

Larry Philbeck, Tom Bunch, Danna Burt, Willie Hucks, Lorena Marin, Robert McChesney, Penny Moore, Cristina Thomsen, student.

### Cultural Affairs

Luz Arauzo, Lane Campbell, Watson Chin, Daryl Hainey, Erwin Sicher, Edith Willis, Lloyd Willis, student.

### Discipline

Judy Miles, Rod Bussey, Bonnie Gnadt, Kirsten Harrington, Willie Hucks, Nancy Rodriguez, James The, Janelle Williams.

### Education Admissions

Randy Gilliam, Tom Bunch, Danna Burt, Carol Campbell, Michael England, Marcel Sargeant, Brenda Schnell, Steve Stafford.

### Exceptions

Danna Burt, Lavonne Adams, Tom Bunch, Michael England, Phil Hieger, Steve Jones, Lorena Marin.

### Executive Cabinet

Donald Sahly, Tom Bunch, Larry Garrett, Fred Harder, Charlotte Henderson, David Knight.

### Faculty/Staff Handbook Revision

Tom Bunch, Lavonne Adams, Steve Jones, Daryl Thomas, Andrew Woolley.

### Faculty/Staff Social Activities

Elaine Temple, Jerry Chi, Silvia Collins, Bill Kilgore, David Knight, Tammy Muse, James The.

### General Education

Mitch Menzmer, Tom Bunch, Danna Burt, Murray Cox, Michael England, Krystal Hauff, Steve Jones, Robert McChesney, Catherine Turner, student.

### Graduate Academic Policies

Tom Bunch, David Anavitarte, Danna Burt, Arthur Chadwick, Renard Doneskey, Randy Gilliam, Barbara Harsany, Phil Hieger, Steve Jones, Karl Konrad, Judy Myers Laue, Robert Mendenhall, Penny Moore, Larry Philbeck, Allen Stembridge, Daryl Thomas, Cristina Thomsen, Lloyd Willis, Student Senate President.

### Graduate Admissions

Tom Bunch, Danna Burt, Rob Gettys, Randy Gilliam, Bonnie Gnadt, Brenda Schnell, Allen Stembridge.

### Graduate Council

Randy Gilliam, Tom Bunch, Randy Butler, Michael England, Allen Stembridge, student.

### Honors

Renard Doneskey, Tom Bunch, Art Chadwick, Watson Chin, Willie Hucks, Erwin Sicher, Larry Turner, Andrew Woolley, Current Seminar Faculty, student.

### Human Subjects Committee

Richard McCluskey, Bill Atkins, Watson Chin, Ed Connell, Phil Hieger, Dan Petr, Marcel Sargeant, Louie Torres, Catherine Turner, Lloyd Willis.

### Information Services

Charles Lewis, Tom Bunch, Danna Burt, Jerry Chi, Watson Chin, Renard Doneskey, Larry Garrett, Ron Macomber, Marcel Sargeant, student.

### Institutional Effectiveness

Larry Turner, Tom Bunch, Larry Garrett, David Knight, Penny Moore, Marcel Sargeant, Erwin Sicher.

### Institutional Planning

Donald Sahly, Tom Bunch, Larry Garrett, Dale Hainey, Daryl Knutson, Karl Konrad, Robert Mendenhall, Penny Moore, Larry Turner, Lloyd Willis, student.

### Institutional Research

Larry Turner, Tom Bunch, Randall Butler, Art Chadwick, Phil Hieger, Bonnie Gnadt, Joyce Melius.

# Committees

---

## **Institutional Safety and Hazardous Materials**

Larry Garrett, Randall Butler, Dale Hainey, Mitch Menzmer, Donna Morrison, Robby Psencik, James The, Janelle Williams.

## **Library Advisory**

Cristina Thomsen, Tom Bunch, Miriam Fabriga, Randy Gilliam, Phil Hieger, Willie Hucks, Robert McChesney, Erwin Sicher, student.

## **Nursing Admissions**

Penny Moore, Tom Bunch, Danna Burt, Brenda Schnell, Steve Stafford, all Nursing faculty.

## **Preprofessional**

Tom Bunch, Arthur Chadwick, Richard McCluskey, Mitch Menzmer, Steve Stafford, Hoyet Taylor, James The, Janelle Williams.

## **Rank and Continuous Appointment**

Tom Bunch, Art Chadwick, Karl Konrad, Dan Petr, Allen Stembridge, Cathy Turner, Lloyd Willis.

## **Recruitment**

Fred Harder, Debra Battin, Tom Bunch, Lane Campbell, Jerry Chi, Bill Kilgore, David Knight, Robert Mendenhall, Judy Miles, Patricia Norwood, Glen Robinson, Brenda Schnell, Assistant Recruiters.

## **Religious Interests**

Lane Campbell, Jean Alway, Debra Battin, Bill Kilgore, David Knight, Nancy Rodriguez, Ingo Sorke, Lolita Valdez, Student Association Religious VP, two students, Student Chaplain.

## **Retention**

Steve Stafford, Tom Bunch, Rod Bussey, Lane Campbell, Jerry Chi, Renard Doneskey, Randy Gilliam, Fred Harder, Krystal Hauff, David Knight, Judy Miles, Patricia Norwood, Robby Pensick, Sharon Potter, Nancy Rodriguez, Donald Sahly, Greg Sullivan, James The, Catherine Turner, Janelle Williams.

## **SACS Leadership**

Tom Bunch, Karl Konrad, Penny Moore, Donald Sahly, Catherine Turner, Larry Turner.

## **Scholar Lecture Series**

Steve Jones, Llavonne Adams, Tom Bunch, Rod Bussey, Randall Butler, Renard Doneskey, Krystal Hauff.

## **Social Activities**

David Knight, Jean Alway, James The, Janelle Williams, SA Social Vice President, three students.

## **Social Work Admissions/Retention**

Phil Hieger, Mark Aldridge, Tom Bunch, Danna Burt, Penny Moore, Nancy Rodriguez, Brenda Schnell, Steve Stafford

## **Student Finance**

Patricia Norwood, Sandie Adams, David Anavitarte, Tom Bunch, Danna Burt, Larry Garrett, Fred Harder, Barbara Harsany, David Knight, Jerry Potter, Steve Stafford, Hoyet Taylor, Greg Wicklund.

## **Student Life**

David Knight, Lane Campbell, Steve Stafford, Greg Sullivan, James The, Janelle Williams, Lolita Valdez, three students.

## **Student Missionary Council**

Lane Campbell, Tina Bottsford, David Knight, Patricia Norwood, Brenda Schnell, Ingo Sorke, Steve Stafford, James The, Lolita Valdez, Janelle Williams, Student Missionary Club President, Four returning student missionaries.

## **Trust Acceptance Committee**

Donald Sahly, Tom Bunch, Larry Garrett, Charlotte Henderson.



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