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Southern College of Seventh-day Adventists

C A T A L O G

Southern Facts

Type. Founded in 1892, Southern College of Seventh-day Adventists is a coeducational accredited college owned and operated by the Southern Union Conference of Seventh-day Adventists.

Mission. The college seeks to guide students in developing a personal commitment to excellence in academic achievement, to serving humanity, to understanding cultural diversity, to nurturing a mature personal relationship with Jesus Christ, and to fulfilling the ideals and mission of the Seventh-day Adventist Church.

Location. Seventeen miles east of Chattanooga, Tenn., in the foothills of the Great Smoky Mountains. Approximately 100 miles north of Atlanta, Ga., 100 miles southwest of Knoxville, Tenn., 130 miles southeast of Nashville, Tenn., and 145 miles northeast of Birmingham, Ala. Interstates 75, 24, and 59 provide easy access. Eastern, Delta, American, and Piedmont airlines provide convenient air service to Lovell Field, less than 10 miles from campus.

Southern College conducts a nursing education program at Florida Hospital Medical Center, Orlando, Fla.

Environment. Unusually beautiful educational setting, with over a thousand acres of college property. Forested slopes of White Oak Mountain and Bauxite Ridge provide scenic backdrop for carefully landscaped grounds. Abundant outdoor recreational opportunities expanded by proximity to Tennessee River (15 miles) and Great Smoky Mountains National Park (100 miles).

Student Body. Residential campus, with 70% of student body in college housing. 1988-1989: 1,443 students and 1,169 FTE; 56% female; 84% White, 8% Black, 5% Hispanic, 3% Asian; from 46 states, 29 nations.

Faculty. Teaching faculty with emphasis on ability to communicate knowledge effectively, relate to students on a one-to-one basis, and model Christian ideals in a caring atmos-

phere. Faculty head count, 125 and 87 FTE. Within liberal arts departments, 100% hold advanced degrees, 76% hold highest degree in field.

Student/Faculty Ratio. 13 to 1.

Financial Aid. A broad scholarship program, with work central to financial assistance, fulfills Southern's commitment to provide educational opportunities for financially disadvantaged young people. Unduplicated count of students receiving aid, 1,076 (79%). Book value of scholarship endowment, \$4.2 million, current campaign goal \$10 million.

Degrees and Majors. Forty baccalaureate majors, 17 associate degree majors, 27 minors, and two one-year certificate programs. Pre-professional programs include dentistry, law, medicine, secondary teaching and others.

Accreditation. Southern Association of Colleges and Schools. SDA Board of Regents. Departments accredited as follows: A.S. and B.S. nursing by the National League for Nursing and the Tennessee Board of Nursing; B.S. in education by the Tennessee State Board of Education, member of the Association of American Colleges, the American Council on Education, the American Association of Colleges for Teacher Education, the National Council of Accreditation for Teacher Education; the National Association for Schools of Music.

Campus and Facilities. Twenty-seven major buildings on the Collegedale campus, including nine classroom buildings with 58 classrooms/laboratories and a recital hall, two residence halls, a physical education center with swimming pool, and an administrative building. Campus church seats 1,850, and houses the Anton Heiller Memorial Organ (4,861 pipes). Broom shop, supermarket and bakery, and The College Press provide student employment.

Student Charges. \$9,312 a year, including tuition, room and board, and estimated expenses.

SC welcomes applications from students regardless of race, sex, religion, color, or national origin whose principles and interests are in harmony with the ideals and traditions of the college as expressed in its objectives and policies.

1989-1990 CATALOG

Telephone:

Collegedale (general number), (615) 238-2111

Admissions information,

Nationwide: (800) 624-0350

Tennessee: Collect (615) 238-2844

Orlando, (407) 897-1890

Mailing Address:

P.O. Box 370

Collegedale, TN 37315-0370

Nursing Department

711 Lake Estelle Drive

Orlando, FL 32803

McKEE LIBRARY
Southern College of SDN
Collegedale, TN 37315

In publishing this catalog, every reasonable effort has been made to be factually accurate. The publisher assumes no responsibility for editorial, clerical, or printing errors. The information presented is, at the time of printing, an accurate description of course offerings, policies, and requirements of Southern College. The provisions of this catalog, however, are not to be regarded as an irrevocable contract between the college and the student. The college reserves the right to change any provision or requirement at any time, without prior notice.

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THIS IS SOUTHERN COLLEGE

Southern College of Seventh-day Adventists is a four-year co-educational institution established by the Seventh-day Adventist Church* primarily to serve its constituents in the southeastern part of the United States. Its purpose is to provide biblical, liberal arts, professional, pre-professional, vocational, adult studies, and special programs in a Christian setting.

EDUCATIONAL PHILOSOPHY AND OBJECTIVES

The purpose of higher education in the Seventh-day Adventist Church is rooted in a comprehensive theological understanding of humanity in the world. The following is a summary of this understanding:

- (1) Seventh-day Adventists believe that God is the Creator and Sustainer of the earth and its inhabitants. He is the Source of all knowledge.
- (2) Created in the image of God for the purpose of communion with Him, man possessed harmonious physical, mental, spiritual, and social attributes.
- (3) As a result of sin, these attributes were seriously marred, but God in His love provided a redemptive plan for the restoration of His image in humanity, thus preparing man for eternal personal fellowship with God.

In the context of this theological understanding, education is viewed as an essential element of redemption, including an awareness of man's relationship to God and a commitment of service to mankind. Education, consequently, must focus on developing the whole person. Southern College attempts to provide a spiritual, intellectual, social, and physical environment designed to encourage this development through the following specific objectives.

Spiritual

Students are expected to acquire an understanding of the beliefs and value system of Christianity as understood by the Seventh-day Adventist Church. Religious instruction in the classroom, religious convocations, and a variety of opportunities for Christian fellowship and service provide the context in which students are encouraged to make their own commitment to these ideals.

*This college is operated by the Southern Union Conference of Seventh-day Adventists, which is comprised of the churches in the states of Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee.

This Is Southern College

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Intellectual

The faculty constitute a fellowship of Christian scholars engaged in a lifelong pursuit of knowledge and wisdom. Academic activities are therefore designed to assist students in achieving intellectual and career goals and in acquiring skills for future learning. A liberal education curriculum is designed to develop critical thinking and expression, intellectual curiosity, aesthetic appreciation, and cultural awareness to help fit students for the realization of their immediate and long-range goals.

Social

Since social maturity is necessary for successful family and community living, Southern College endeavors to provide for the development of healthy interpersonal relations, communication skills, and decision-making abilities in an atmosphere marked by personal concern and acceptance.

Physical

The development of the whole person would be incomplete without attention to physical well-being. Principles of healthful living, including a balanced program of exercise, rest, diet, study, work, and recreation, are promoted through instruction, work experience, and recreational facilities.

HISTORY

In 1892 the educational venture that developed into Southern College had its beginning in the Seventh-day Adventist Church in the small village of Graysville, Tennessee. The school became known as Graysville Academy. In 1896 the name was changed to Southern Industrial School and five years later to Southern Training School.

In 1916, because of limited acreage available for further expansion of plant facilities, the school was moved to the Thatcher farm in Hamilton County, Tennessee. The name "Collegedale" was given to the anticipated community. At its new location, the school opened as Southern Junior College and continued as such until 1944 when it achieved senior college status and the name was changed to Southern Missionary College. In 1982 the name was changed to Southern College of Seventh-day Adventists.

SETTING

Southern College's one-thousand-acre Collegedale campus is nestled in a valley eighteen miles northeast of Chattanooga. The quietness and beauty of the surroundings are in keeping with the college's educational philosophy.

Nursing programs are also offered through the Orlando Center at Florida Hospital Medical Center.

ACCREDITATION AND MEMBERSHIPS

Southern College is accredited by the Southern Association of Colleges and Schools and by the Seventh-day Adventist Board of Regents.

Departments of the college are also accredited by various organizations. The Associate of Science and Bachelor of Science degree programs in nursing, including Public Health Nursing, are accredited by the National League for Nursing as surveyed by the Collegiate Board of Review. The Division of Nursing is an agency member of the Department of Baccalaureate and Higher Degree Programs of the Division of Nursing Education of the National League for Nursing. It is also accredited by the Tennessee Board of Nursing and is recognized by the Florida State Board of Nursing.

The college is approved by the Tennessee State Board of Education for the preparation of secondary and elementary teachers. The Bachelor of Science degree in Education is accredited by the Tennessee State Board of Education. Southern College is also a member of the Association of American Colleges, the American Council on Education, the Tennessee College Association, the American Association of Colleges for Teacher Education, the National Council of Accreditation for Teacher Education (NCATE), and the National Association for Schools of Music.

ACADEMIC PROGRAM

The academic program consists of forty baccalaureate degree majors and twenty-seven minors. Students may pursue programs of study leading to the Bachelor of Arts, Bachelor of Science, Bachelor of Business Administration, Bachelor of Music, and Bachelor of Social Work degrees. Seventeen programs leading to an associate degree are also offered. Various pre-professional and terminal curricula are available to students wishing to qualify for admission to a professional school.

Secondary teaching certification is available in sixteen disciplines. One-year certificates are available in Auto Body Repair and Food Service. SC also cooperates with Loma Linda University in offering the M.Ed. and M.P.H. degree and with Andrews University in offering the M.S.N. degree.

STUDENTS

Nearly seventy percent of the students of Southern College come from the eight states comprising the Southern Union Conference of Seventh-day Adventists. However, most of the additional states and 25-30 foreign countries are also represented. There are a few more women than men. See "Southern Facts" for more details.

Former Southern College students are now serving in the ministerial, teaching, medical, and other services of the Seventh-day Adventist Church at home and abroad. Others are engaged in advanced study,

This Is Southern College

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business pursuits, government service, research activities, private and institutional medical services, and the teaching professions on all levels.

FACILITIES

The following buildings house the academic activities of the college on the Collegedale campus:

Brock Hall—Art, Business and Office Administration, English and Speech, History, Journalism, Modern Languages, Instructional Media, and WSMC FM90.5

Daniells Hall—Mathematics, Physics, Computer Science

Hackman Hall—Biology and Chemistry

Herin Hall—Nursing

Ledford Hall—Technology

McKee Library

William Iles Physical Education Center—Physical Education

Religion Center (So-Ju-Conian Hall)—Religion

Student Center—Computer Center, Student Health Service, Cafeteria, Testing and Counseling Center, Campus Ministry Office, student activity rooms, K.R.'s Place

Summerour Hall—Behavioral Sciences, Consumer and Family Sciences, Education and Psychology

J. Mabel Wood Hall—Music

Lynn Wood Hall—Alumni, Conference Rooms

Wright Hall—Administration

Other facilities on or near campus that serve student needs:

Collegedale Academy—secondary laboratory school

Collegedale Seventh-day Adventist Church

Charles Fleming Plaza—shopping center with businesses serving the college and community

Recreational Area—tennis courts, a track, playing fields

Spalding Elementary School—laboratory school

Student Apartments

Student Park

Talge Hall—men's residence hall

Thatcher Hall—women's residence hall

Trailer Park

WSMC FM90.5—radio station

Various auxiliary and vocational buildings house college industries and service departments.

ADMISSIONS, ACADEMIC POLICIES, INFORMATION, AND SERVICES

ADMISSIONS

Southern College welcomes applications from students, regardless of race, sex, religion, or national origin, whose principles and interests are in harmony with the ideals and traditions of the college as expressed in its objectives and policies. Although religious affiliation is not a requirement for admission, all students are expected to abide by the policies and standards of the college as a Seventh-day Adventist institution.

PREPARATION FOR FRESHMAN STANDING¹

Applicants for regular admission as freshmen must submit three satisfactory recommendations to the Admissions Office and satisfy one of the following three conditions by the time of enrollment:

Regular Acceptance

- A. Graduate from an approved secondary school, including Home Study International, with a grade point average (GPA) of at least 2.00 (on a 4.00 scale) in major subjects² and have a minimum composite score of 15 on the American College Test (ACT).
- B. Pass the General Education Development (GED) test, have a composite score of 15 on the ACT, and be eighteen years old by June 1 (prior to admission). Each applicant must have an official transcript of his or her grades and credits sent to the Admissions Office from the high school most recently attended.
- C. Complete a minimum of eighteen secondary school units, fourteen of which must be in major subjects², with a minimum GPA of 3.00 in the major subjects, and have a minimum composite score of 15 on the ACT.

¹Those planning to enter professions such as nursing or music education should consult departmental admissions requirements.

²Bible, English, mathematics, natural science, social science, and foreign language.

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Southern College must have received a final high school transcript or GED scores and a transcript from the high school last attended from each new student before he or she will be admitted to registration.

Acceptance on Academic Probation

- A. If either the high school GPA or ACT composite score is below the minimum requirements as stated above, the student may be accepted on academic probationary status.
- B. Students accepted on academic probation may take no more than 12 semester hours during the first semester.

If both the high school GPA and the ACT composite score are below the minimum requirements (2.00 and 15 respectively), it will be necessary for the student to take a minimum of six semester hours (in solid courses) and maintain a college GPA of 2.25 before being accepted at Southern College. These six hours may be taken at Southern College during the summer (last session excluded) or at another accredited college.

Applicants to freshman standing are expected to have the following minimum subjects in their secondary program:

1. Three units of English, excluding journalism and speech.
2. Two units of mathematics, including algebra.
3. Two units of science or an ACT score of 15 in natural science. A college class in biology, chemistry, or physics must be taken in addition to general education requirements if this condition is not met.
4. Two units of social studies. If one of these two units is not World History, HIST 174, 175, 364, 365, 374, 375, 386 or 389 must be taken as part of the general education requirements.
5. Two units in a foreign language for a B.A. degree are required. If deficient, one year of a foreign language at the college level will be required.
6. One unit in typing is strongly recommended.

ADMISSION TO THE NURSING DIVISION

Students who wish to be admitted to nursing courses as freshmen or as transfer students should refer to the Nursing section of the CATALOG for admission requirements.

ADMISSION OF TRANSFER STUDENTS

Students wishing to transfer to Southern College from another accredited college or university must follow the same application procedure as other students. Transfer credits may be applied toward the requirements for a degree when the student has satisfactorily completed a minimum of twelve semester hours in residence. Credit by examination taken at other colleges will be accepted according to Southern College standards (see page 31). A maximum of seventy-two semester

hours may be accepted from a junior college. Background deficiencies revealed by transcripts and entrance examinations will be given individual attention.

Credit will be granted for courses taken at institutions which are not regionally accredited only after the student has completed at least 16 semester hours at Southern College with a 2.00 or better average. Only those courses that are comparable to Southern College courses, and for which the student has earned a "C" or better grade, will be accepted.

A student who has been dismissed from another institution because of poor scholarship or citizenship, or who is on probation from that institution, is not generally eligible for admission until he can qualify for readmission to the institution from which he has been dismissed. **Transfer students must submit both their college and high school transcripts to the Admissions Office before being admitted to registration.**

ADMISSION OF SPECIAL STUDENTS

Mature individuals who do not meet the above college admission requirements and who do not wish to become degree candidates, or otherwise-qualified students who may desire limited credit for transfer to another institution of higher learning, may register as special students.

ADMISSION OF INTERNATIONAL STUDENTS

An international student making application to Southern College must have completed the equivalent of a United States high school (secondary) education. The student is required to list only the institutions and dates attended on the application forms, but will not be accepted to Southern College until the college has received original records or official copies of all credits, degrees, diplomas and other credentials, with validation by school or national officials. These should be in the original language, accompanied by a translation (not an interpretation) in English, and certified by an American Embassy official if possible.

The Vice President for Admissions of Southern College will evaluate academic documents received for international students based on the recommendations found in the World Education series of booklets published by the American Association of Collegiate Registrars and Admissions Officers and *Patterns of Seventh-day Adventist Education*, published by the General Conference of Seventh-day Adventists.

Students from countries which administer the G.C.E. (General Certificate of Education) examinations must have earned five (5) or more "O" level academic subject passes (generally at one sitting, with marks 1 through 6 or A through D). Subjects must include English, a natural science, and three others selected from a second language, mathematics, science and social studies.

Proficiency in English, both written and oral, must be proven before

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admission. This may be done by taking the English Language Proficiency Test (ELI) or Test of English as a Foreign Language (TOEFL). Students whose ELI score is below 90 or TOEFL score is below 550 will not be admitted. Students must reach the above stated score to be admitted to the college for the regular academic year.

In addition to the regular college expenses, there are other expenses for an international student. (Please refer to the Financial Information section of the CATALOG.)

International students should realize that according to U.S. Immigration laws, overseas students are not permitted to work more than 20 hours per week and may not be employed except on the college campus.

It is important that international students *not* leave their homeland until they receive an official letter of admission from Southern College. Such a letter will be issued only if the student's academic credentials are satisfactory, surety advance deposit has been made, and he is able to demonstrate his ability to finance his education at Southern College. Then the (Immigration) I-20 form will be issued.

When the student departs his homeland, he should have in his possession:

1. An admissions letter of acceptance from Southern College;
2. I-20 form;
3. A valid passport;
4. A valid visa to enter the United States;
5. Sufficient funds for the first year at Southern College (in addition to the international surety deposit required of all non-U.S. citizens).

APPLICATION PROCEDURE FOR ADMISSION

- ▶ Prospective students should request application forms from the Office of Admissions.
- ▶ Completed applications, budget sheets, and medical forms should be returned to the Office of Admissions with an application fee of \$15.
- ▶ It is the student's responsibility to request any former schools (high school and college) to forward transcripts to the Office of Admissions in support of the application. These will become the property of the college. **NO TRANSCRIPT WILL BE ACCEPTED DIRECTLY FROM AN APPLICANT.**
- ▶ To permit a more effective program of counseling for admission, students transferring from another college or university with fewer than 55 semester hours and other students who have no college composition and/or mathematics courses will be required to take the ACT (American College Test) prior to registration at Southern College.

- ▶ Upon receipt and evaluation of the application, transcripts of credits, recommendations, and test scores, the Admissions Committee will notify the applicant of the action taken.

WHEN TO APPLY OR REAPPLY

New students are urged to submit applications not later than the last term of the senior year of high school. Applications submitted at the beginning of the senior year will sometimes enable the college to suggest ways of strengthening the student's preparation. Because of the difficulty sometimes encountered during the summer months in obtaining necessary transcripts, test scores, and recommendations, more time will be necessary for processing late applications.

Students in residence may submit re-applications without charge until April 30. Thereafter the regular application fee of \$15 will be required.

ACADEMIC POLICIES

PLANNING A COURSE OF STUDY

When planning for college, students should consider in detail the course of study which will lead to their desired profession or occupation. If a firm decision about the choice of life work has not been made before entering college, students may take a general program of study exploring several fields of knowledge during the freshman year. This approach need not result in loss of credits if carefully planned.

The college offers programs of study leading to the Bachelor of Arts, Bachelor of Science, Bachelor of Business Administration, Bachelor of Music, Bachelor of Social Work, Associate of Arts, Associate of Science and Associate of Technology degrees, various pre-professional curricula, and one-year occupational certificate programs.

When planning their course work, students should acquaint themselves with the programs of study and graduation requirements outlined in this CATALOG. Freshman students may consult faculty members during the summer months before the beginning of the fall term. Students planning to teach should consult the Department of Education and Psychology so as to include courses in teacher education as a part of their program in order to qualify for denominational and state certification.

Degree candidates are responsible for satisfying all degree requirements. Students may choose to meet the requirements of any one catalog in effect during the period of residency. If students discontinue for a period of twelve months or more, they must qualify according to a single catalog in force subsequent to their return.

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GENERAL DEGREE REQUIREMENTS: Baccalaureate Degree

The general degree requirements for a baccalaureate degree are as follows:

- ▶ Satisfactory make-up of admissions deficiencies. (See page 8).
- ▶ A minimum of 124 semester hours with a resident and cumulative grade point average of 2.00 (C) or above.* Students earning the Bachelor of Science degree in Nursing must take 130 semester hours and those earning the Bachelor of Music degree will need 132 semester hours.
- ▶ A minimum of 40 hours of upper division credit, to include at least 14 upper division hours in the major for a B.A. degree and at least 18 upper division hours in the major for all other degrees.
- ▶ Completion of a major and minor (two majors accepted) for a B.A. degree or completion of a major for other degrees with a cumulative grade point average of 2.25 in the major,* completion of the general education requirements, and electives to satisfy the total credit requirements for graduation. Courses completed with grades lower than a "C-" will not be applied on a major or minor.
- ▶ More than one major may be earned provided all courses required for each major and its cognates are completed. Some courses may apply to both majors, but a minimum of 20 hours in the second major must not overlap with those in the first major.
A major and minor, with different names, may be earned in the same department provided all requirements for both are met. Some courses may apply to both, but a minimum of 14 hours in the minor must not overlap with those in the major.
Two emphases of the same major may be earned provided that all requirements for both are met and that 14 hours above the number ordinarily required for the major are earned.
- ▶ Completion of an examination as required by the department.
- ▶ Students wishing to obtain a second degree will need to complete, beyond the 124 minimum hours required, a minimum of 30 hours, including 16 hours upper division, and a new major.
- ▶ Completion of General Education requirements as spelled out in the "General Education Requirements" section of this CATALOG.

*For educational certification, the minimum grade point average (GPA) of 2.50 must be met both in education and in the field of certification. In elementary education, a GPA of 2.50 is required in the major and in required non-major subjects. The music major requires a GPA of 2.25 both in applied music and other music courses. The nursing major requires a GPA of 2.25 in cognate courses as well as in the major. The medical technology major requires minimum grades of C- and a minimum average of 2.25 in the major and cognates.

GENERAL DEGREE REQUIREMENTS: Associate Degree

- ▶ A minimum of 64 semester hours and a resident and cumulative grade point average of 2.00 (C) or above. Nursing majors need 69 semester hours.
- ▶ Completion of a major, the general education requirements, and electives to satisfy the total credit requirements for graduation. Courses completed with grades lower than "C-" may not be applied on a major.
- ▶ Students who have completed one associate degree and who wish to obtain another associate degree may do so upon completion of the curriculum prescribed for the second degree. The work completed for the second degree must include at least 24 hours in residence over and above the number of hours earned for the first degree. If the second associate degree is earned subsequent to the first associate degree, the requirements for the second degree will be governed by the provisions of the CATALOG in effect at the time the student re-enters the college for work toward the second degree.
- ▶ Students who wish to obtain an associate degree at the time they receive a baccalaureate degree may do so if the degrees are in different fields. If requirements for an associate and a baccalaureate degree in the same field are completed at the same time, only the higher degree will be conferred.

ONE-YEAR CERTIFICATE REQUIREMENTS

- ▶ A minimum of 32 semester hours which meet the requirements of a specific one-year program.
- ▶ A resident and cumulative grade point average of 2.00 (C) or above. Grades in the technical area below "C-" will not be accepted.

GENERAL REQUIREMENTS: Minor

- ▶ A minimum of eighteen semester hours of which six must be upper division credit.

CLASS STANDING

Freshmen	0-23 semester hours
Sophomores	24-54 semester hours
Juniors	55-93 semester hours
Seniors	94- semester hours

Eligibility for class office requires a grade point average of 2.25 and a good citizenship record.

GRADUATION REQUIREMENTS

Degree Candidacy: A student may become a degree candidate when he or she enters upon the school term during which it will be possible

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to complete all requirements for graduation. Formal application for graduation must be made during the fall registration of the senior year.

Dates of Graduation: The date of graduation will be (a) the date of commencement for those graduating at the close of the school year, (b) the last day of the semester for those finishing first semester, and (c) for others, the last day of the month in which graduation requirements are met. A commencement service occurs at the end of the second semester of each school year.

Transcripts: Before a student will be allowed to graduate, transcripts of all correspondence and transfer credits must be received at the Office of Records.

Participation in Graduation Exercises: Students are allowed to participate in commencement exercises only if they have completed all the courses they need for graduation or if they submit an approved plan for completing their courses the following summer. A \$100 fee is charged to students who are listed on the May graduation program as prospective summer graduates. This fee is refundable only if the degree requirements are completed by August 31. See the Director of Records for outline of criteria.

Deferred Graduation: Students ordinarily are allowed to graduate under the requirements of the CATALOG of the year in which they enter the college, or of any subsequent year in which they are in attendance, provided they do not discontinue attendance for twelve months or more. Students who are studying for a baccalaureate degree and fail to graduate within six calendar years (four years for an associate degree), must plan to conform to the current CATALOG.

RESIDENCE REQUIREMENTS

Baccalaureate Degree: Thirty semester hours of credit must be completed in residence immediately preceding the conferment of the baccalaureate degree. These hours must include 16 upper division, with eight upper division in the major and three upper division in the minor fields.

Associate Degree: Twenty-eight semester hours of credit must be completed in residence immediately preceding the conferment of the associate degree. Sixteen of these hours must be in the major area of study.

Certificate Programs: Eighteen semester hours of credit must be completed in residence immediately preceding the conferment of a one-year certificate.

Transfer Credit: Unless prior arrangements were made with the Vice President for Academic Administration, the college will not accept transfer credit earned at another college or university during any session the student was simultaneously enrolled at Southern College.

UPPER DIVISION CLASSES

Students must complete forty semester hours of 100 and 200 level courses (lower division) before enrolling in a 300 or 400 level course (upper division). **The English composition and mathematics requirements in area A, Basic Academic Skills, of General Education must be met before enrollment in upper division classes.**

GENERAL EDUCATION

While recognizing the validity of many different general education programs, the faculty of Southern College have designed the following sequence that provides development of academic skills and opportunities for self-fulfillment, and conveys basic values of both the Seventh-day Adventist Church and western civilization. Students may exercise considerable latitude when selecting courses to comply with General Education requirements. A comprehensive general education test may be required of all students.

GENERAL EDUCATION REQUIREMENTS

Semester Hours
Assoc. Bach.

AREA A. BASIC ACADEMIC SKILLS

All Area A courses must be completed before upper division work is undertaken. Upper division transfer students may take Area A requirements concurrently with upper division classes.

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|---|-----|-----|
| 1. <i>English</i> | 3-6 | 6-9 |
| ENGL 101 is required for an associate degree; ENGL 101 and 102 for a bachelor's degree. Students with ACT English score below 13 must take ENGL 099 before enrolling for ENGL 101. | | |
| 2. <i>Mathematics</i> | 0-3 | 0-3 |
| Students with a Math ACT score below 22 must take one of the following: MATH 103, 104, 114, 215. MATH 099 is required of all students with a Math ACT score below 12. | | |
| 3. Candidates for the bachelor's degree must complete three writing-emphasis classes. These classes are identified by a "(W)" following the course name, e.g., History of the South (W), in the departmental listings. One such class must be in the student's major field and one must be outside the major field. | | |

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Semester Hours
Assoc. Bach.

AREA B.	RELIGION <i>Transfer students must take 3 hours for each year or part thereof in attendance at an SDA college with a minimum of 6 hours. Bachelor's degree students must take at least three hours from each of the sub-areas and include one upper-division class.</i>	6	12
	<ol style="list-style-type: none"> 1. <i>Biblical Studies</i> All RELB courses. 2. <i>Religion</i> All RELT courses (Only one of RELT 317, 318, 424, will apply). 		
AREA C.	HISTORY, POLITICAL AND ECONOMIC SYSTEMS <i>Students with less than one secondary school credit for World History must include one of the following: HIST 174, 175, 364, 365, 374, 375, 386 or 389.</i>		
	<ol style="list-style-type: none"> 1. <i>History</i> All HIST courses. 2. <i>Political and Economic Systems</i> All PLSC courses; GEOG 204 (elementary education majors only); GEOG 306, ECON 213, 224, 225. 	3	6
AREA D.	LANGUAGE, LITERATURE, FINE ARTS <i>Bachelor's degree students must include at least 2 hours in each of 3 sub-areas (2 sub-areas if required to take 6 hours of foreign language). Students entering Southern College who have less than two secondary school credits of foreign language and who are pursuing a Bachelor of Arts degree must complete the elementary level of a foreign language.</i>	3	9
	<ol style="list-style-type: none"> 1. <i>Foreign Language</i> FREN 101-102, 211-212; GRMN 101-102, 211-212; SPAN 101-102, 211-212; RELL 271-272, 311-312, 471-472. 2. <i>Literature</i> All literature courses offered by the English Department. 3. <i>Music and Art Appreciation</i> HMNT 205; MUHL 115, 215, 320, 321, 322, 323; ART 218, 318, 344, 345. 		

4. *Speech*
SPCH 135, 136, 236.

AREA E. **NATURAL SCIENCE** 3-6 6-9

Bachelor's degree students must take at least 3 hours from each of 2 sub-areas. Only one of the following may apply: BIOL 424, PHYS 317, 318. Students who have less than two secondary school units in science, and a Natural Science ACT standard composite score less than 15, must take 3 hours of science above the usual requirements; e.g. associate degree students must take 6 hours and bachelor's degree students must take 9 hours. Southern Scholars must take a sequence of two classes from the same department. See the "Honors Studies Sequence" section of the CATALOG for clarification.

1. *Biology*
BIOL 101-102, 103, 104, 125, 151-152, 226, 314, 424.
2. *Chemistry*
CHEM 111-112, 113-114, 151-152.
3. *Physics*
PHYS 111-112, 155, 211-212, 213-214, 317, 318.
4. *Earth Science*
ERSC 105, 106.

AREA F. **BEHAVIORAL, FAMILY, HEALTH SCIENCES** 2 5

Bachelor's degree students must include at least 2 hours in each of 2 sub-areas.

1. *Behavioral Science*
All PSYC courses except 240, 326, 355, 356, 384; all SOCI courses except 223, 365; SOCW 211, 212, 375, 424; EDUC 217, 427.
2. *Family Science*
CFSC 146, 147, 201, 202; CLTX 313; BUAD 128, SOCI 223, 233, 365; PSYC 233.
3. *Health Science*
HLED 173, 203; FDNT 125.

AREA G. **ACTIVITY SKILLS** 3 6

Associate degree students may take a

maximum of 2 hours in any sub-area; bachelor's degree students may take a maximum of 3 hours in any sub-area. All students must take at least 1 hour from G-3.

1. Creative Skills

All MUPF courses; ART 104-105, 109, 110, 215, 235; CFSC 349; ENGL 314; FDNT 151; JOUR 225, 315.

2. Practical Skills

ACCT 103, 121-122; CFSC 244; CPTR 105, 106, 107, 120, 126, 131, 132, 217, 218; CLTX 164, 165, 166, 316, 345; FDNT 126, 127, 317; TECH 145, 149, 154, 164, 174, 223, 249, 264, 349, 364; SECR 104, 105, 114, 115, 214, 218; LIBR 125; EDUC 250.

3. Recreational Skills

All PEAC courses. Optional pass/fail grading is available for these courses.

SOUTHERN SCHOLARS (Honors Program)

The honors program is designed for students who bring to their baccalaureate studies a high degree of motivation and intellectual curiosity. Special projects, interdisciplinary studies and designated honors courses provide a challenging and intellectually stimulating educational experience. Degrees of depth and breadth are attained in this experience beyond those normally attained in regular baccalaureate studies.

The program is administered by an honors committee. This committee admits students to the program and discontinues honors status of those who fail to maintain minimum program standards. Its members also advise individual Southern Scholars and continually monitor their progress.

Eligible students will be invited to become Southern Scholars during registration. Freshmen are eligible if they have a high school GPA of 3.70 or higher. Other students must have completed at least thirty-one and at most sixty-two semester hours with a cumulative GPA of 3.50 or higher.

To continue as Southern Scholars, students must complete a minimum of twelve credits each semester and thirty-one credits each calendar year. They must also enroll in appropriate honors sequence courses, receive a B (3.00) average or higher in the honors sequence courses and maintain a minimum cumulative GPA of 3.50. All honors students are expected to graduate within a four-year period unless extenuating circumstances justify an extension by the honors committee.

Ordinarily, all courses of the honors sequence must be taken in residence. Limited exceptions may be made by the honors committee in the case of transfer students. Students already enrolled at Southern College who wish to take honors sequence classes at another institution must secure prior approval from the honors committee.

After completing one year in the honors program, Southern Scholars may receive a scholarship for the cost of auditing one class for each semester that they remain in the program. Beginning with their junior year, the student will also receive a scholarship covering a three-hour class each semester. Also, a scholarship will be granted to cover Honors Seminar HMNT 451, 452. The "per-hour" rate for a 16-semester hour class load will be the basis for calculating these scholarships.

HONORS STUDIES SEQUENCE

A. General Education

Honors students must meet regular general education requirements with the following stipulations:

1. Area B-2. One of the following courses must be selected: RELT 424 or RELT 467.
2. Area D-1. Foreign language competency must be attained at the intermediate level.
3. Area D-2. ENGL 445 must be selected.
4. Area D-3. HMNT 205 must be selected.
5. Area E. MATH 181, MATH 215, or BUAD 313 and one of the following science sequences must be selected: BIOL 151-152; CHEM 151-152; PHYS 211-212 with PHYS 213-214.

B. Honors Seminar

HMNT 451, 452, a sequence of eight seminar sessions, one each month, September through April. Taken during the junior or senior year.

C. Project (2-3 hours, Directed Study)

A significant interdisciplinary project demonstrating an understanding of the relationship between the student's major field and some other discipline. Directed study research, writing, special performance, appropriate to the major in question. The honors committee expects the project to be of sufficiently high quality to justify public presentation. The project must be approved by the honors committee in consultation with the student and his supervising professor.

GRADUATION WITH HONORS

Students graduating with a cumulative GPA of 3.50 or above will have the degree conferred as follows: 3.50-3.74, *cum laude*; 3.75-3.89, *magna cum laude*; 3.90-4.00, *summa cum laude*. The appropriate designations will appear on the diploma. Students completing the honors

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program will, in addition to the above designation, be graduated as Southern Scholars.

HONOR ROLL/DEAN'S LIST

At the conclusion of each semester of the school year, students who have carried a minimum of 12 semester hours and who have attained the following grade point averages will be included in the honors group indicated.

- 3.25 Honor Roll
- 3.50 Dean's List
- 3.75 Distinguished Dean's List

MAJOR AND MINOR REQUIREMENTS

Southern College offers 40 majors and 27 minors for students wishing to qualify for a baccalaureate degree. Each major consists of thirty hours or more in the chosen field of specialization of which a minimum of fourteen for a Bachelor of Arts degree and eighteen for all other Bachelor's degrees must be upper division credit. The total semester hours required for each major for the Bachelor of Science, Bachelor of Business Administration, Bachelor of Music, and Bachelor of Social Work degrees varies with the field of specialization chosen.

All minors consist of eighteen semester hours. Six hours of a minor must be upper division credit.

The specific requirements for majors and minors are given under the respective disciplines in the section "Courses of Study."

DEGREES AND CURRICULA

The Bachelor of Arts degree consists of four years of course work that places a student's major field of study in the context of a liberal arts education. To encourage a wide range of studies, a minor is required. A foreign language component is required.

The Bachelor of Science degree consists of four years of course work that places the student's major field of study in the context of a liberal arts education. The degree permits somewhat greater concentration in the field of study. No minor or foreign language study is required except as specified for certain majors.

The Bachelor of Business Administration degree is a professional degree consisting of a four-year program with concentrations available in various fields of business. Requirements for this degree are outlined in the Business and Office Administration Department section.

The Bachelor of Music degree is a professional degree consisting of four years of course work designed to meet the needs of students wishing to receive teaching credentials. Requirements for this degree are outlined in the Music Department section.

The Bachelor of Social Work degree is a professional degree consisting of a four-year program of courses designed to meet the needs of students wishing to go into the social work profession. Requirements for this degree are outlined in the Behavioral Science Department section.

The Associate of Arts degree is a two-year program designed to meet the needs of students who wish to pursue a short general studies program.

The Associate of Science degree is a two-year program designed to meet the needs of students who wish to pursue a short occupational or pre-professional program.

The Associate of Technology degree is a two-year program designed to meet the needs of students who wish to pursue a technological program with a minimum of general education. Requirements for this degree are outlined in the Technology section.

The One-Year Certificate is available for students desiring training in Auto Body Repair. Requirements for the certificate are outlined in the Technology Department section.

Pre-Professional Curricula are programs designed to prepare students to enter professional schools. In some cases pre-professional curricula will lead to an associate degree.

CURRICULUM CHART

Department	Degree	Major	Minor
Allied Health	BS	Medical Technology	
	AS	Pre-Dental Hygiene	
	AS	Pre-Occupational Th	
	AS	Pre-Physical Therapy	
Art			Art
Behavioral Science	BS	Beh Sci-Family Studies	Behav Sci
	BSW	Social Work	Sociology
Biology	BA	*Biology	Biology
	BS	*Biology	
Business & Office Admin.	BBA	Accounting	
	AS	Accounting	
	BS	Business Admin	Business Admin
	BBA	Computer Info Systems	
	BS	Long-Term Health Care	
	BBA	Management	
	BS	*Office Admin	Office Admin
	AS	Office Adm-Executive	
	AS	Office Adm-Medical	
	AS	Office Adm-Word Proc	
AS	Pre-Health Info Admin		
Chemistry	BA	*Chemistry	Chemistry
	BS	*Chemistry	

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Department	Degree	Major	Minor
Computer Science	BBA	Computer Info Systems	
	BA	Computer Science	Computer Sci
	BS	Computer Science	
	AS	Computer Science	
Education & Psychology	BS	Elementary Education (Secondary teaching — See asterisked majors)	
	BA	Psychology	Psychology
Engineering Studies	AS	Engineering Studies	
English	BA	*English	English
General Studies	AA	General Studies	
Health, PE, & Recreation	BS	*Health, P.E. & Recr	Hlth, PE, Recr
	BS	Health Science	
History	BA	*History	History
Journalism	BA	Journ-Broadcasting	Broadcasting
	BA	Journ-News Editorial	News Editorial
	BA	Public Relations	Public Relations
Mathematics	BA	*Mathematics	Mathematics
	BS	*Mathematics	
Modern Languages		(1-year abroad req.)	
	BA	*French	French
	BA	*German	German
	BA	*Spanish	Spanish
	BA	International Studies	
Music	BA	Music	Music
	BMus	*Music Education	
Nursing	AS	Nursing	
	BS	Nursing	
Physics	BA	*Physics	Physics
	BS	*Physics	
Religion	BA	Religion-Church Ministry	Practical Theology
	BA	*Religion Teaching Min	Religion Biblical Langs
Technology	AS	Tech/Architectural Studies	
	AS	Tech/Computer Applica	
	Cert	Auto Body Repair	Technology
		Graphic Arts Prep Technical Plant Services	

Cert = One-year certificate program

*Secondary teaching certification available for these disciplines

PRE-PROFESSIONAL CURRICULA

Southern College offers pre-professional and pre-technical programs in a wide variety of fields which may prepare students for admission

to professional schools or to enter upon technical careers. Below are listed the pre-professional curricula offered at Southern College.

Anesthesia	Optometry
Dental Hygiene	Osteopathic Medicine
Dentistry	Pharmacy
Dietetics	Physical Therapy
Law	Public Health Science
Medical Technology	Radiology Technology
Medicine	Respiratory Therapy
Occupational Therapy	Veterinary Medicine

An A.S. degree in Allied Health is available to students who spend two or more years at Southern College while fulfilling pre-professional requirements in the allied health fields of Dental Hygiene, Dietetics, Health Information Administration, Occupational Therapy, and Physical Therapy. Pre-professional and technical admission requirements may vary from one professional school to another. The student is, therefore, advised to become acquainted with the admission requirements of the chosen school.

Detailed requirements for non-degree pre-professional curricula are outlined by department or in the section on "Interdepartmental Programs" (See Index).

REGISTRATION

Students are expected to register during the scheduled registration periods designated in the school calendar. The registration process is complete only after all procedures have been met and registration forms are returned to the Office of Records. Freshmen are required to participate in the orientation activities.

Late Registration. Permission to register late must be obtained from the Director of Records. Students failing to register during the scheduled registration periods will be assessed a late registration fee of \$29. The course load of a late registrant may be reduced according to the amount of classwork missed. No student may register after two weeks of the semester have elapsed.

Changes in Registration. To avoid changes in registration students should carefully consider the program of courses necessary to meet their objectives. To avoid subsequent adjustments, a balance should be maintained between the course load, work program, and extracurricular activities.

To make program changes students must obtain the appropriate change of registration voucher at the Office of Records. After obtaining the necessary signatures indicating approval of the change, they must return the form to the Office of Records. Course changes and complete withdrawals from the school become effective on the date the voucher

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is filed at the Office of Records. A fee of \$12 will be assessed for each change in program after the first week of instruction.

A student may not change from one section to another of the same course without the approval of the instructor.

A student may withdraw from a class up to two weeks after mid-term and receive a grade of "W" automatically. A student withdrawing from a class after that date and up to two weeks before the last day of classes will be assigned a grade of "W" or "WF" by the teacher. The grade for any withdrawal during the final two weeks of the semester will automatically be "F."

Auditing Courses. With the approval of the department, students may register on an audit basis in courses (other than private lessons) for which they are qualified. Auditors are to be admitted to classes of limited enrollment only if there are places after all students who wish to enroll for credit have been accommodated. Class attendance is expected but examinations and reports may be omitted. With the approval of the instructor, a student may change a course registration from audit to credit or from credit to audit only during the first week of instruction. No credit is given for courses audited, and the fee is one-half of the regular tuition charge.

COURSE LOAD

College courses are expressed in semester hours. A semester hour consists of one fifty-minute class period per week for one semester. Thus, two-semester-hour classes meet two hours a week and three-semester-hour classes meet three hours a week. A laboratory period of two and one-half to three hours is equal to one class period. Students should expect to study between one and one-half and two hours outside of class for each fifty-minute period the class meets. Ideally a sixteen-semester-hour class load should require forty or more hours of study each week by the student. Except by permission of the Vice President for Academic Administration, a student may not register for more than eighteen semester hours.

To qualify for a baccalaureate degree in four years, a student must average between fifteen and sixteen hours per semester. The summer term may be used to advantage by students wishing to complete degree requirements in less than four years or by students having to take reduced programs of studies during the regular academic year.

Study-Work Program. It is important that the student adjust the course load to achieve a reasonable balance in study and work. During registration the student should confer with his adviser in planning the proper balance of study and work. In determining an acceptable study-work program, the following will serve as a guide.

Course Load	Maximum Work Load
16 hours	16 hours
14 hours	20 hours
12 hours	26 hours
10 hours	32 hours
8 hours	38 hours

FULL-TIME STUDENT

Students enrolled for twelve or more semester hours and students in the last semester of their senior year who are taking all the courses required for graduation (but no fewer than eight semester hours) will be classified as full-time students. The completion of nine or more semester hours will constitute full-time enrollment for the summer. Students receiving financial aid should consult the Student Finance Office for the definitions of a full-time student set up by the various agencies which offer aid.

GRADING SYSTEM

Mid-semester and semester grade reports are issued to the student and parents of students termed "dependent" for income tax purposes. Only semester grades are recorded on the student's permanent record.

The following system of grading and grade point values is used:

A 4.0 grade points per hour	D 1.0 grade points per hour
A- 3.7 grade points per hour	D- 0.7 grade points per hour
B+ 3.3 grade points per hour	F 0.0 grade points per hour
B 3.0 grade points per hour	W Withdrawal
B- 2.7 grade points per hour	WF Withdrew Failing
C+ 2.3 grade points per hour	(0.0 grade points per hour)
C 2.0 grade points per hour	AU Audit
C- 1.7 grade points per hour	I Incomplete
D+ 1.3 grade points per hour	P Pass

A student may receive an "I" (incomplete) because of illness or other unavoidable delay. Students who are eligible for an incomplete must secure from the Office of Records the proper form and file the application with the teacher to receive an incomplete. There is a charge of \$7 for processing grades of incomplete. **Any incomplete which is not removed by the end of the following term (Fall, Spring, Summer) will automatically become an "F."**

A course in which the student received a grade of "C," "D," or "F" may be repeated before taking a more advanced course in the same field. Only the last grade will be counted on repeated courses. No course may be repeated more than once without permission from the Vice President for Academic Administration.

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The grade point average is calculated by dividing the total number of grade points earned by the hours attempted.

STUDENT RECORDS

A student's record is regarded as confidential, and release of the record or of information contained therein is governed by regulations of the federal law on "Family Educational Rights and Privacy." Only directory information, such as a student's name, address, telephone listing, birthplace and date, major fields of study, participation in officially recognized activities and sports, dates of attendance, degrees and awards received, and the most recent previous educational agency or institution attended, may be released by the institution without consent of the student unless the student has asked SC to withhold such information.

Parents of students termed "dependent" for income tax purposes are entitled to access to the student's educational records. The law also provides for the release of information to College personnel who demonstrate a legitimate educational interest, other institutions engaged in research (provided information is not revealed to any other parties), and certain federal and state government officials.

A student may inspect and review records and is entitled to challenge the content of records.

A more thorough explanation of records may be obtained from the Office of Records. The Director of Records will further explain and clarify the Family Educational Rights and Privacy Act to students, parents, or interested parties upon request.

ACADEMIC HONESTY

Morally and spiritually, Southern College is dedicated to scholastic integrity. Consequently, both students and faculty are required to maintain high, ethical Christian levels of honesty.

Faculty Responsibilities:

1. Teachers must explain clearly the requirements for assignments, examinations, and projects, such as "open book," "take home," or "peer collaboration."
2. Teachers may assume "no collaboration" is the rule unless they state otherwise.

Student Responsibility:

1. Students assume responsibility to avoid plagiarism by learning the proper procedures for acknowledging borrowed wording, information, or ideas. Otherwise students might innocently misrepresent others' material as their own.
2. Students unfamiliar with procedures for citing sources should confer with their teacher.

3. Students are to assume all course work is "no collaboration" unless stated otherwise by the teacher.

Departmental Policies:

Some departments, because of the nature of their programs, have *additional honesty policies which have the same force as those published here*. Such policies will be presented to students before implementation.

Procedures for Handling Academic Dishonesty:

1. When a teacher suspects academic dishonesty in some form, such as cheating or plagiarizing, the teacher must first confront the student with the dishonesty. If the student and teacher cannot resolve the situation, or if the student's grade will be affected, then the Vice President for Academic Administration must be consulted.

2. In established instances of academic dishonesty, the usual procedures for the teacher to follow will be to:

- a. Give the student a failing grade on the exam, assignment or project if the magnitude of either is not sufficient for failing the class.
- b. Give the student a failing grade in the class if failing the exam, assignment or project would constitute failing the class.

The teacher will then write up the incident and state the penalty administered, giving a copy to both the Vice President for Academic Administration and the student.

3. Two incidents of academic dishonesty make a student eligible to be dismissed from college. However, the student may then appeal the action through the established appeal procedures spelled out in the "Grievance Procedure" section of this CATALOG.

ACADEMIC PROBATION AND DISMISSAL

When for any reason a student's Southern College or cumulative grade point average falls below 2.00, the student will be placed on academic probation and restricted from holding office in any student organization or being a member of any touring group. Those on academic probation will not be allowed to participate in academic activities causing class absences.

Any baccalaureate senior with a grade point average of less than 2.25 in his major will also be placed on academic probation. Candidates for an associate of science degree must have a grade point average of at least 1.95 before being accepted for their final year and at least 2.00 after attempting 53 or more semester hours. Candidates for a one-year certificate must have at least a 2.00 average at the end of the second semester of enrollment. No more than one additional semester of enrollment will be permitted. If the 2.00 grade point average is not then reached, the student will be dismissed.

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Transfer students must have a grade point average of at least 2.00 in order to be eligible for regular admission to Southern College.

A student will be subject to academic dismissal when the Southern College or cumulative grade point average fails to reach the levels indicated below. The academic record will be reviewed by a committee, and the Vice President for Academic Administration will notify the student in writing of the committee's decision.

<i>Semester Hours Attempted</i>	<i>G.P.A./Subject to Dismissal</i>
6-48	1.50
49-64	1.65
65-80	1.75
81-93	1.85
94-116	1.95
117-up	2.00

A student academically dismissed may not be readmitted until two sessions (for this purpose the summer is counted as one session) have elapsed. Eligibility for readmission shall include successful college-level work taken in another institution or other evidence of maturity and motivation.

Students receiving financial aid must also meet an academic progress policy set by the federal government. For further explanation see page 256, "Southern College Academic Progress for Federal and Institutional Student Financial Aid."

RIGHT OF PETITION

Students who believe there is a valid reason for requesting variance from or exception to an academic policy stated in the CATALOG may make a petition to the Vice President for Academic Administration for consideration of their case after obtaining the advice and signature of the department chairman of their major. The petition must contain a statement of the request and supporting reasons. Students will be notified in writing by the Vice President for Academic Administration of the action on petitions within five working days. Petition forms are available from the the Records Office.

GRIEVANCE PROCEDURE

Students who believe that their academic rights have been infringed upon or that they have been treated unjustly with respect to their academic program are entitled to a fair and impartial consideration of their cases. They should do the following to effect a solution.

1. Present the case to the teacher or teachers concerned.
2. If necessary, discuss the problem with the department chairman.
3. If agreement is not reached at this level, submit the matter to the Vice President for Academic Administration.

4. Finally, ask for a review of the case by the Grievance Committee, chaired by the Vice President for Academic Administration or his designee and including three other faculty members and two students selected by the Academic Affairs Committee. Both the student and the teacher involved in the case are entitled to appear before the committee or to present a written statement of the case. The decision of the committee shall be presented in writing to the individuals involved within three days of the committee meeting unless a later time is agreed upon by both parties. The decision of the committee is binding and will be implemented by the teacher involved or the Vice President for Academic Administration.

ABSENCES

Class. Attendance at class and laboratory appointments is required. Absences are dealt with in two ways. Teachers may excuse absences themselves or ask their students to submit excuses to the Absence Committee. Students are told at the beginning of each semester which of the two means will be used in the class.

Generally speaking, absences will not be excused by either a teacher or the Absence Committee for reasons other than illness, authorized school trips, or emergencies beyond the student's control. Absences due to illness are not normally excused unless the student contacts Student Health Service prior to the absence. Non-emergency medical appointments must not interfere with the class program. Students are responsible to furnish documentation for absences due to emergency.

For classes in which the Absence Committee is used, a completed absence excuse form (one for each class) must be placed in the absence box, located in the Student Center, no later than noon the first Monday following the absence. Absence forms are available at the Student Center. The Absence Committee determines whether or not to excuse the absence and notifies the teacher of its decision.

Students having absences exceeding in number* twice the number of course credit hours (six absences for a three-hour credit course) may, at the teacher's discretion and after consultation with the Vice President for Academic Administration, be dropped from the class.

Make-up work is not normally allowed in the case of homework or quizzes missed due to absences. Teachers have the option of recording homework and quiz averages if the absence is excused. Tests and major assignments missed because of excused absences are made up as arranged with the teacher.

Examination. Because of problems concerning time, expense and fairness, final examinations will be taken as scheduled in the official examinations schedule. In the case of illness verified by Student Health Serv-

* One and one-half absences are given for missing a 75-minute class, two for missing a 100-minute class, etc.

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ice or a physician, death in the immediate family, three examinations scheduled consecutively in one day, or four or more examinations scheduled in one day, a final exam may be rescheduled upon approval by the teacher and the Vice President for Academic Administration. The rescheduled examination will be given at a time convenient to the teacher.

When examinations are rescheduled because of three scheduled consecutively in one day or four in one day, the last examination of the day will normally be the one so rescheduled. Examinations rescheduled for any reason other than those listed above, may require a fee of \$59 per examination. All rescheduling requests will be made on a form available at the office of the Vice President for Academic Administration.

Assembly. Assemblies are held each Thursday at 11:00 a.m. During weeks of spiritual emphasis assemblies are held on Tuesday as well. Occasionally, assemblies will be held in the evening or may begin at 10:30 a.m. on Thursday. All students are required to attend 16 assemblies each semester. Failure to meet this assembly requirement can result in suspension of registration. Exceptions to the assembly attendance requirement are made by the student services office only for legitimate direct work or class conflicts with scheduled assemblies. Any excuses for absences from assembly must be approved by the vice president for student services.

A special series of orientation assemblies is scheduled during the fourth summer session.

LIMITATIONS ON CLASS ATTENDANCE

Classes at Southern College are open to registered students only. Information disseminated in the classroom or other places of learning is the primary product that the college sells, hence visitors may not expect to enter such gatherings freely. To attend classes visitors must be official guests of the institution with legitimate business in a classroom or have the permission of the instructor.

Visitors who attend classes do not exercise the right to engage in the discussions of a class unless invited to do so. Classes are gatherings at which college employees organize learning experiences about prearranged topics as listed in the catalog rather than public forums. Registrants who pay tuition can expect their class rights to be protected from the intrusion of anyone who has not similarly paid for the course.

Teachers and the institution reserve the right to remove legitimate students from classes if their behavior threatens the purposes of the class by exceeding the bounds of normal academic freedom.

Teachers conducting extension classes from other institutions on the Southern College campus share the rights spelled out by this policy.

WAIVER EXAMINATIONS

Upon the approval of the department chairman and the Vice President for Academic Administration, students may obtain a waiver of curricular requirements by successfully completing a comprehensive examination—written, oral, manipulative, or otherwise, as determined by the department involved. A fee of \$45 per examination is charged.

NONTRADITIONAL COLLEGE CREDIT

In addition to credit earned in the traditional classroom setting, Southern College accepts credit earned by two other means—challenge examinations and correspondence courses.

The goals and objectives of the college emphasize not only facts and concepts but also values and attitudes which are not easily transmitted through correspondence courses or measured by examinations. These values and attitudes can best be developed by the student's interacting over a period of time with peers and teachers committed to moral excellence, critical thinking, and the pursuit of truth. For this reason, most college credits should be earned through class participation. However, the college will permit a maximum of one-fourth of the credit required for a given degree to be earned by these nontraditional means.

College Credit by Examination. The college recognizes three types of examinations for credit: challenge examinations prepared by a division which must be passed at "B" level or above, approved College Level Examination Program (CLEP) subject examinations which must be passed at the 65th percentile or above, and the Advanced Placement Examinations which must be passed with a score of three or better. A student may challenge a given course by examination only once. No CLEP or challenge exam may be attempted after the student has been enrolled in that course beyond the second week of a semester. **No course may be challenged as part of the last thirty hours of any degree.** Grades are recorded for departmental challenge examinations and scaled scores are recorded for nationally normed examinations. Permission to take a challenge examination while in residence must be obtained from both the department chairman and the Vice President for Academic Administration.

Credit for challenge and/or validation examinations will not be placed on a student's permanent record and is, therefore, not transferable until that student has successfully completed twelve semester hours in residence at Southern College.

Fees charged for challenge examination and credit are listed under "Special Fees and Charges" in the financial section of this CATALOG.

Additional information concerning challenge examinations may be obtained from the Office of Records or the Counseling and Testing Center.

Correspondence. A maximum of twelve semester hours of correspond-

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ence or extension credit may apply toward a baccalaureate degree program and eight hours toward an associate degree.

Home Study International of Washington, D.C., is the officially recognized correspondence school. Southern College recommends Home Study International for those students needing correspondence credit and accepts all such credits when the study program is approved by the college prior to enrollment.

A student will be permitted to carry correspondence work while in residence only if the required course is unobtainable at the college. Correspondence courses, whether taken while in residence or during the summer, must be approved in advance by the college.

Correspondence work may not apply on the upper division requirements of the major or minor. A minimum grade of "B" must be earned to apply on the lower division requirements for a major. Correspondence credit with a "D" grade is unacceptable and a course in which the student earned a grade of "D" or "F" while in residence may not be repeated by correspondence. No correspondence credit will be entered on the student's record until he has earned a minimum of twelve hours in residence with an average of at least "C." Official transcripts must be in the Office of Records before a diploma will be ordered. The graduation date will be the last day of the month after the official transcript is received.

TRANSCRIPTS

Official transcripts of a student's academic record may be obtained by the student upon a written request to the Office of Records. The request must include the student's signature and payment of \$3.00 in cash, check, or money order for each transcript ordered. Same-day service is available for \$5.00. Because of legal difficulties, telephone requests from students and telephone or written requests from other members of the student's family cannot be honored.

A student may receive an unofficial transcript for evaluative purposes without charge by applying in person at the Office of Records. Official transcripts given directly to a student will be stamped "Student Copy." No transcript will be issued for a student whose account is not paid in full or who is delinquent in payment of student loans. **No exceptions will be made.**

SEQUENCE OF COURSES

A student may not receive credit for a course which is prerequisite to a course for which he has already received credit.

ACADEMIC ENRICHMENT SERVICES

E. A. ANDERSON LECTURE SERIES

The E. A. Anderson Lecture Series is an annual feature of the business curriculum. The series is made possible by the generosity of E. A. Anderson of Atlanta, Georgia, for the purpose of giving the student a broader understanding of the business world.

The public is invited to attend the lectures free of charge; however, for a fee, continuing education credit is available. All lectures are presented at 8 p.m. in the E. A. Anderson Business Seminar Room, Brock Hall, Room 338.

EUGENE A. ANDERSON HEILLER ORGAN CONCERT SERIES

The Anderson Heiller Organ Concert Series was initiated in 1986 to provide world-class organ concerts. These concerts and workshops are presented by foremost organists from throughout the world. Selected performances are broadcast internationally on "Pipe Dreams."

The series is made possible through the generosity of Eugene A. Anderson of Atlanta, Ga., for the education and enjoyment of the students and the public. Because of its uniqueness, this series attracts organists and other fine arts enthusiasts from all areas of the country.

The Anton Heiller Memorial Organ, a 70-stop 108-rank tracker, was dedicated in the Collegedale Seventh-day Adventist Church in April 1986. A second instrument, a mean-tone organ with two manuals and 13 stops, is housed in Ackerman Auditorium. Both were built by John Brombaugh and Associates of Eugene, Ore.

FLORENCE OLIVER ANDERSON LECTURE SERIES

Each year the Nursing Department at Southern College of Seventh-day Adventists brings nationally recognized experts in the health field on campus to address the professional community.

Southern College believes education to be a dynamic lifelong process and is committed to providing professional nurses with continuing education opportunities, as well as exposing student nurses to the importance of self-initiated education.

This series of seminars is dedicated to excellence in nursing and is made possible by the generosity of the late Florence Oliver Anderson.

STALEY CHRISTIAN SCHOLAR LECTURE SERIES

The Thomas F. Staley Foundation provides the Department of Religion with funds for a speaker to come on campus once a year. This individual is the speaker for a chapel service, usually holds a table-talk session during the lunch hour at the cafeteria, and serves as guest lecturer at several religion classes.

Academic Enrichment Services

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ROBERT H. PIERSON LECTURE SERIES

The Robert H. Pierson Lecture Series brings to the department of Religion recognized speakers to address faculty, students, and the community on topics of interest in the religious world and in the Seventh-day Adventist Church.

The individual speaks at a Friday evening and Sabbath morning service in the Religion Chapel, and holds a discussion session Sabbath afternoon.

CHAMBER MUSIC SERIES

Ackerman Auditorium in J. Mabel Wood Hall is the setting for the Sunday evening Chamber Music Series. Each semester two or three artists and/or ensembles provide a variety of listening experiences for students, faculty, and the community. Artists are chosen in such a fashion that over a four-year period a student can become acquainted with most types of chamber music.

HUMANITIES FILM SERIES

Christian education involves the teaching of discretion in society: how to appreciate human culture while being critical of its content and direction. These films series, sponsored by Student Services and the History Department, seek to provide films of a serious, mature, informative, educational, and entertaining nature. They are intended to augment the educational experience of students at the college level.

The films in these series have been chosen for their societal impact, historical importance, inspirational depth, classical significance, and informative value. Critical notes are provided to strengthen the student's awareness of certain elements in the films.

INSTRUCTIONAL MEDIA

The Instructional Media Service serves the college administration, faculty, staff, and students. The full-time staff includes a director, secretary, and service technician.

LIBRARIES

McKee Library provides both print and nonprint educational materials for the students and faculty of the college. Open stacks, pleasant areas to read or study, current periodicals, and a large microform collection contribute to the enjoyment of learning. Special collections in the library include the Curriculum Library, a collection of elementary and secondary education materials; Seventh-day Adventist Heritage Collection, books and materials by SDA authors and about the Seventh-day Adventist Church, pictures, periodicals, archive material; the Dr. Vernon Thomas Memorial Civil War and Abraham Lincoln Collection, books, letters, manuscripts, newspapers, pamphlets, pictures, paintings, maps, and artifacts of this period in American History.

The 10,000 volume extension library at the Orlando Center is well-known throughout central Florida as an outstanding nursing material resource center.

The combined collection of these libraries contains approximately 180,000 items. Approximately 1,000 periodicals are currently received which include a large number of titles kept permanently on microform. McKee Library has an online computerized card catalog. The library is a member of Ohio College Library Center and charter member of the Southeastern Library Network automated systems.

The facility has been in use since 1970, and provides seating for 400, including 300 individual study carrels.

MARINE BIOLOGICAL STATION

Southern College is affiliated with Walla Walla College in the operation of a marine biological station, located at Rosario Beach on Fidalgo Island in the Puget Sound of the state of Washington. The station provides facilities for undergraduate and graduate students to take courses and do research during the summer term and for year-round research. The close proximity to the biological spectrum from sea bottom to Alpine tundra provides a unique opportunity for instruction and investigation.

WSMC FM90.5

WSMC FM90.5 is a 100,000 watt, noncommercial, fine arts radio station licensed to Southern College.

WSMC provides training for students in the field of broadcasting. The station regularly hires between 15 and 20 students as on-air announcers, or production assistants. The station is an excellent way for the student to receive hands-on experience in the field of broadcasting.

WSMC represents the college to the greater Chattanooga community, with a coverage area including a 100-mile radius of Chattanooga. Founded in 1961, it is the oldest noncommercial fine arts station in southeastern Tennessee. WSMC was the first radio station in a seven-state region to receive satellite capability. The station also exists as an outreach of the college—striving to enhance the quality of life in the community.

The station produces high-quality fine arts, informational, educational, and inspirational programs. WSMC is affiliated with National Public Radio, American Public Radio, the Associated Press, and the Adventist Radio Network.

WSMC's broadcast studios are located in Brock Hall. The facility includes a studio-quality production room, news room, music library, and on-air studios.



DEPARTMENTAL COURSES OF STUDY

COURSE NUMBERS

Each course number consists of three figures as follows:

The first numeral indicates class year status as follows:

- 0 — remedial (institutional credit only)
- 1 — freshman level (lower division)
- 2 — sophomore level (lower division)
- 3 — junior level (upper division)
- 4 — senior level (upper division)

Within a given 100 sequence there is no significance in one course number being higher than another. For instance, 265 does not necessarily mean that the course is on a higher level than 235.

Course numbers that stand alone represent courses of one semester which are complete units. Course numbers separated by a comma represent complete units, either one of which may be counted for graduation without reference to sequence.

Course numbers separated by a hyphen are two-semester courses in which credit for the first course is a prerequisite to the second. However, credit may be given for the first semester when taken alone.

Designation in brackets following course titles, e.g., Survey Mathematics (A-2) indicates the General Education area and sub-area that the class fulfills. Classes designated with a "(W)" are writing classes for General Education credit.

ALLIED HEALTH

Chairman: Stephen A. Nyirady

Faculty: Henry Kuhlman, Marcie Woolsey

Adjunct Faculty: John Lechler

Medical Technology: Jack Blume, Rodney Holcomb,
Patricia Rogers

The Allied Health Professions are rapidly growing areas of specialization within the health care industry. Job openings are plentiful and pay scales are comparable to other professionals in health care. The department offers a B.S. degree in Medical Technology and an A.S. degree in Allied Health (Pre-Dental Hygiene, Pre-Occupational Therapy, Pre-Physical Therapy).

BACHELOR OF SCIENCE IN MEDICAL TECHNOLOGY

The Bachelor of Science degree with a major in medical technology consists of three years of prescribed study at Southern College and a 12- to 13-month senior year in a hospital-based medical technology program accredited by the Committee on Allied Health Education and Accreditation (CAHEA) of the American Medical Association. Hospital programs affiliated with Southern College include Florida Hospital Medical Center and Hinsdale Hospital. Internship in other CAHEA-accredited programs requires prior college approval.

The medical technology degree qualifies a person to take a number of national certifying examinations, including those offered by the Board of Registry of the American Society of Clinical Pathologists (ASCP) and the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). Certified laboratory professionals work in hospitals, clinics, physicians' offices, public health agencies, private laboratories, pharmaceutical firms, and research institutions.

The curriculum prescribed by Southern College is designed to meet the requirements of the college and of the Committee on Allied Health Education and Accreditation (CAHEA). Affiliated hospitals may have additional requirements. Students should consult the brochures or advisers of the specific hospitals for those requirements.

Occasionally pre-dental students, pre-medical students, and graduating seniors in biology or chemistry may wish to become certified Medical Technologists. This is possible if the student plans courses to fulfill the requirements of the college and the hospital program.

During the fall semester of the third year, students must apply for admission to an affiliated hospital-based medical technology program. Acceptance of the individual student to the senior year program is determined by the hospital. To be eligible for admission, a student must complete all of the college course requirements prior to beginning the senior year. The over-all grade point average must be acceptable to the

college for graduation. Most hospital programs do not accept students with less than a 2.75 cumulative average on a 4.0 system. Although hospital acceptances are granted during the junior year, they are conditional, pending satisfactory completion of the stated admission criteria.

Written information about each of the affiliated hospital-based medical technology programs is available through the college medical technology adviser. The student should be aware that acceptance criteria, pre-clinical course requirements, application procedures, tuition for the senior year, and program formats may vary at each affiliated hospital. There is a \$50 recording fee for the senior year.

†MAJOR 2

MDTC 225. Introduction to Medical Technology 2 hours

This course is designed to acquaint prospective medical technologists with the profession. The history and standards of medical technology and employment opportunities will be surveyed. Elementary clinical laboratory procedures will be taught and laboratory tours will be conducted.

†COGNATES 41

*BIOL including 151-152, 315, 330 16

*CHEM including 151-152, 311, 313 16

CPTR 120 or 131 3

MATH 114 3

BUAD 334 3

*These must be courses which could apply to a Biology or Chemistry major.

GENERAL EDUCATION REQUIREMENTS 35

A. 1. ENGL 101, 102 6

2. (See Cognates)

B. Religion 9

C. History, Political Science, and Economics 6

D. Language, Literature and Fine Arts 6

E. (See Cognates)

F. Behavioral, Family or Health Sciences 3

G. Activity Skills 5

Twenty hours of upper division, including two writing courses are required—one (W) course must be in a cognate area and one in a non-cognate area.

ELECTIVES 15

Recommendations include:

BIOL 316, 415, 417, 418

CHEM 312, 314, 315, 321, 323

MATH 215

PHYS 211, 212, 213, 214

TOTAL PRE-CLINICAL CREDIT HOURS 93

†Grades of C- and better are required in the major and cognates. A minimum GPA of 2.25 must be earned on the major and cognates.

Allied Health

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HOSPITAL CLINICAL (SENIOR) YEAR Variable

Individual affiliated hospital programs should be consulted for their specific courses and credits. Approximately forty credit hours are given in the twelve- to fifteen-month clinical programs. Courses taught in affiliate programs include:

Introduction to Medical Laboratory Science, Urinalysis, Hematology, Hemostasis, Immunology, Immunohematology, Clinical Microbiology, Clinical Mycology, Clinical Parasitology, Clinical Biochemistry, Instrumentation, Research.

TYPICAL SEQUENCE OF COURSES FOR B.S. MEDICAL TECHNOLOGY

YEAR 1		Semester 1st 2nd		YEAR 2		Semester 1st 2nd	
CHEM 151-152	General Chemistry	4	4	CHEM 311	Organic Chemistry		3
ENGL 101-102	College Composition	3	3	CHEM 313	Organic Chem Lab		1
HIST 174,175	Survey of Civ	3	3		*Chemistry *2		4
MATH 114	Precalculus	3		BIOL 151-152	*General Biology		4
RELB 125	Teachings of Jesus		3	BIOL 330	*Gen Microbiology		4
	Area G-3, Rec Skills	1		RELT 138	Adventist Heritage		3
	Elective *1	1	3	PSYC 124	Intro to Psychology		3
		15	16	MDTC 225	Intro to Med Tech Literature *4		2
					Area G, Act Skills		3
							1
							16
							16

YEAR 3		Semester 1st 2nd		YEAR 4	
BIOL 315	*Parasitology		3	Clinical Year	
BUAD 334	*Princ of Management		3		
CPTR 131	*Funds. of Programming I		3		
	*Biology *3		3		
	Area B, Religion *4		3		
	Area D, Lang/Lit/Fine Arts		3		
	Electives *5		3		
			6		
			15		
			15		

*An asterisk in front of a subject indicates Med-Tech requirement.

*1 Pre-Meds recommended to take Calculus I.

*2 Recommended Chemistry courses: (CHEM 312, 314, 315, 321, 323)

*3 Recommended Biology courses: (BIOL 316, 415, 417)

*4 This is a suggested place for taking an upper division course.

*5 Recommended Physics courses: (PHYS 211, 212, 213, 214)

20 upper division credits, make-up of any admissions deficiencies, and 93 total hours must be completed prior to the clinical year.

ASSOCIATE OF SCIENCE IN ALLIED HEALTH

The Associate of Science degree in Allied Health Professions prepares the student for admission to professional programs at Loma Linda University or Andrews University. Admission to any professional school is dependent on meeting the GPA and prerequisite requirements of the individual school. Students desirous of admission to other professional

programs should check the bulletin of that school to ascertain the requirements.

Applications for transfer to the junior year of colleges offering Allied Health programs must be made early in the second semester of the final year at Southern College. LLU requires students who have credit for any remedial courses or for MATH 104, Intermediate Algebra, to take a corresponding number of semester credits above the minimum number required for graduation. The lowest acceptable grade for courses to be transferred is C-. A minimum grade point average of 2.00 is required for the Associate of Science degree at Southern College, but grade point averages between 2.50 and 3.50 are considered minimal for entrance to the junior year of Allied Health programs. All applicants are required to have taken the Allied Health Professions Admissions Test. (AHPAT).

There are three major emphases in the Allied Health Professions degree: pre-Dental Hygiene, pre-Occupational Therapy, pre-Physical Therapy.

The department also offers curricula to meet requirements for entrance into the following Allied Health degree programs at Loma Linda University and most other university programs.

Occupational Therapy Assistant (Associate in Arts Degree)

Physical Therapy Assistant (Associate in Arts Degree)

Radiologic Technology (Associate in Science and Bachelor of Science Degrees)

Respiratory Therapy (Associate in Science and Bachelor of Science Degrees)

Speech-Language Pathology and Audiology (Bachelor of Science Degree)

For details on these programs and Southern College curricula for entrance into them write:

Chairman, Allied Health Department
Southern College of SDA
Collegedale, TN 37315

PRE-DENTAL HYGIENE

Adviser: Stephen Nyirady

(Program meets admission requirements for Loma Linda University.)

Area A ENGL 101-102; MATH 103 (or 22 Math ACT and 2 units h.s. Math)

Area B RELB or RELT, 9 hrs.

Area C HIST, 3 hrs.

Area D For Lang/Lit/Fine Arts, 6 hrs.; SPCH, 3 hrs.

Area E BIOL 101-102, 125, CHEM 111-112, 113-114.

Area F PSYC 124; SOCI 125; 3 additional hrs. PSYC, SOCI, HIST, or ECON.

Area G PEAC, 1 hr.; Music or Art, 2 hrs.

Elective to make a total of 64 hrs.

TYPICAL SEQUENCE OF COURSES FOR A.S. PRE-DENTAL HYGIENE (Allied Health Professions)

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
ENGL 101-102	College Composition	3	3	CHEM 111-112	Survey of Chemistry	3	3
BIOL 101-102	Anatomy & Physiology	3	3	CHEM 113-114	Survey of Chem Lab	1	1
MATH 103	Survey of Math	0-3		BIOL 125	Microbiology	4	
PSYC 124	Intro to Psychology		3		Area B, Religion	3	3
SOCI 125	Intro to Sociology	3			Area D, For Lang/Lit/F. Arts	3	3
	Area B, Religion		3		Area G-1, Music or Art	1	1
	Area D-4, Speech		3		Psychology, Sociology, History or Economics		3
	Area G-3, P.E. Activity	1			Elective		2
	Area C-1, History		3				2
	Elective	3-0	1				17
		16	16				16

NOTE: C - is the lowest acceptable grade for a course. The Allied Health Professions Admission Test (AHPAT) is required.

PRE-OCCUPATIONAL THERAPY

Adviser: Stephen A. Nyirady

(Program meets admission requirements for Loma Linda University)

Area A ENGL 101-102; MATH 103 (or 22 Math ACT *and* 2 units h.s. Math; MATH 104 not accepted for credit by LLU.)

Area B RELB or RELT, 9 hrs.

Area C HIST, 3 hrs.

Area D SPCH, 3 hrs.; Foreign Lang/Lit/Fine Arts, 3 hrs.

Area E BIOL 101-102, 125; CHEM 111-112, 113-114, or PHYS 111-112.

Area F PSYC 124, 128; SOCI 125; additional PSYC or SOCI, 2 hrs.

Area G ART 235; TECH 154, Applied Arts or Crafts, 2 hrs.; PEAC, 1 hr.

A minimum of 80 hours work experience (volunteer or as an employee) in an occupational therapy department is required.

TYPICAL SEQUENCE OF COURSES FOR A.S. PRE-OCCUPATIONAL THERAPY (Allied Health Professions)

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
ENGL 101-102	College Composition	3	3	CHEM 111-112	Survey of Chemistry	3	3
BIOL 101-102	Anatomy & Physiology	3	3	CHEM 113-114	Survey of Chem Lab	1	1
ART 235	Ceramics	3		TECH 154	Woodworking	4	
SOCI 125	Intro to Sociology		3	BIOL 125	Microbiology	4	
PSYC 128	Dev Psychology	3		PSYC 124	Intro to Psychology		3
	Area B, Religion	3	3	MATH 103	Survey of Math		0-3
	Area D-4, Speech		3		Applied Arts or Crafts	2	
	Area F-1, Behav Sci		3		Area B, Religion		3
	Area G-3, Recreation Skills	1			Area C, History	3	
		16	18		Area D, F. Lang/Lit/F. Arts		3
					Elective		3-0
							17
							16

NOTE: C - is the lowest acceptable grade. The Allied Health Professions Admission Test (AHPAT) is required.

PRE-PHYSICAL THERAPY

Adviser: Marcie Woolsey

(Program below meets Andrews University admission requirements).

- Area A ENGL 101-102; MATH 104 (or 22 Math ACT); MATH 215
 Area B RELB or RELT, 3 hrs.; RELT 255
 Area C HIST 154
 Area D SPCH 135; Fine Arts, 3 hrs.
 Area E BIOL 101-102, 125; CHEM 151-152, PHYS 111-112
 Area F PSYC 124, 128; PSYC, SOCI or ECON, 3 hrs.
 Area G PEAC 125; additional PEAC, 1 hr.; CPTR 120
 Electives to make a minimum total of 64 hrs.

If BIOL 151-152 has already been taken it may be substituted for BIOL 101-102. Recommended electives are FDNT 125, ECON 213, ACCT 103.

A minimum grade point average of 2.50, figured on science and non-science courses separately, is required. C- is the lowest acceptable grade for science and cognate courses. The Allied Health Professions Admissions Test (AHPAT) is required. Also required are the Strong-Campbell Vocational Interest Inventory and the Sixteen Personality Profiles Tests. All three tests may be taken at SC. Students must pre-register with the Testing and Counseling Center for the AHPAT. This test is only offered four times a year and a fee is charged. An additional requirement for admission is 80 hours of observation or work experience with a physical therapist. This 80 hours must include at least 16 hours in each of three of the following settings: general acute care hospital, home health agency, industrial practice, nursing home, private practice, rehabilitation center, school for the handicapped, specialized clinics.

TYPICAL SEQUENCE OF COURSES FOR A.S. PRE-PHYSICAL THERAPY

(Allied Health Professions)

Requirements for entrance to the junior year of a Physical Therapy course will depend on the college selected. Requirements for Andrews University and Loma Linda University are outlined here. Students who complete one of these programs will be awarded an Associate of Science degree by Southern College. Students planning to attend other colleges should contact them to obtain their requirements.

ANDREWS UNIVERSITY REQUIREMENTS

	YEAR 1		Semester			YEAR 2		Semester	
			1st	2nd				1st	2nd
ENGL 101-102	College Composition		3	3	CHEM 151-152	General Chemistry		4	4
BIOL 101-102	Anatomy & Physiology*		3	3	BIOL 125	Basic Microbiology		4	
PSYC 124	Introduction to Psychology		3		RELT 255	Christian Beliefs		3	
PSYC 128	Developmental Psychology			3	MATH 215	Statistics			3
MATH 104	Intermediate Algebra**		3			Computer Course			3
RELB 125	Life & Teachings of Jesus		3			Area C, History***		3	
SPCH 135	Intro to Public Speaking			3		Area D-3, Mus or Art App****			3
PEAC 125	Conditioning		1			Area G-3, Recreation Skills		1	
PHYS 111	Intro to Physics			3		Psyc, Sociology, or Econ			3
			16	15				15	16

SUMMER

PHYS 112 Intro to Physics 3

*BIOL 151-152, General Biology, may be substituted if it has already been taken.

**Not required if the MATH ACT score is 22 or higher, but 64 total hours must be completed.

***American History required if not taken in high school.

****A two-semester sequence in a music organization may be substituted.

Program below meets Loma Linda University admission requirements.

Area A ENGL 101-102; MATH 104, 215

Area B RELB or RELT, 6 hrs.

Area C HIST 174

Area D Foreign Lang/Lit/Fine Arts, 6 hrs.; SPCH 135

Area E BIOL 151-152, 125, CHEM 151-152, PHYS 111-112

Area F PSYC 124, 128; SOCI 125

Area G PEAC, 1 hr.; CPTR 120

A minimum of 80 hours work experience (volunteer or employee) in a physical therapy department, 20 of which are in a general, acute-care hospital, is also required.

A.S. PRE-PHYSICAL THERAPY

LOMA LINDA UNIVERSITY REQUIREMENTS

YEAR 1		Semester 1st 2nd		YEAR 2		Semester 1st 2nd	
ENGL 101-102	College Composition	3	3	CHEM 151-152	General Chemistry	4	4
BIOL 151-152	General Biology	4	4	BIOL 125	Basic Microbiology	4	
PSYC 124	Introduction to Psyc	3		SOCI 125	Intro to Sociology		3
PSYC 128	Developmental Psyc		3	CPTR	Computer Course		3
MATH 104	Intermediate Algebra	3		MATH 215	Statistics		3
PHYS 111	Intro to Physics		3	RELT	Area B, Religion		3
RELB 125	Life & Teachings of Jesus	3		HIST 174	Survey of Civ		3
SPCH 135	Intro to Public Speaking		3		Area D, Fine Arts or F. Lang	3	3
		16	16		Area G-3, Recreation		1
							17 17
SUMMER							
PHYS 112	Intro to Physics		3				

NOTE: A total of 68 semester hours, excluding Intermediate Algebra, is required for admission. Other entrance requirements are the Allied Health Professions Admissions Test and a minimum of 80 hours work experience (volunteer or as an employee) in a physical therapy department. C- is the lowest acceptable grade for a course.

YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
ART	345	Contemporary Art	3	ART	499	Senior Project	1
		Area B-2, Religion	3			Area B, Religion (U.D.)	3
		Area C-2, Pol Sci/Econ	3			Art Electives	6
		Area E, Natural Science	3			Minor or Electives	9
		Area F-1, Behav. Science	3				10
		Area G-3, Recreat. Skills					16
		Minor or Electives	3				16
		Art Electives					
			5				
			15				
			15				

See pages 12, 13 and 15-18 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Minor: Eighteen hours including courses ART 104-105, 109, 110, 344, with not less than six hours in upper division courses.

Teaching Endorsement: See Education and Psychology Departments.

STUDIO ART

ART 104-105. Beginning Drawing I, II (G-1) 2,2 hours

An introductory course in drawing, composition, and design. Emphasis on the basic art elements and their functions in composition using various media. (Fall, Spring)

ART 109. Design I (G-1) 3 hours

Emphasis on the design and layout of newspapers, magazines, brochures, and advertisements. Creative use of illustrations and typographical elements to enhance the communicative potential of the print media.

ART 110. Design II (G-1) 3 hours

Problems in two- and three-dimensional art, dealing with line, shape, form, color, and texture.

*ART 215. Sculpture (G-1) 3 hours

Prerequisite: ART 104-105 or permission of instructor.

Introduction to the problems of form in sculpture and three-dimensional design using various media such as clay, plaster, wood, and metal casting. Taught odd years. May be repeated for credit.

*ART 217. Printmaking 3 hours

Prerequisite: ART 104-105 or permission of instructor.

A course designed to give the art major experience in printmaking media. Relief, intaglio, and silk-screen will be covered. May be repeated for credit.

ART 221-222. Painting I, II 3,3 hours

Prerequisite: ART 104-105 or permission of instructor.

A course designed to give the student experience in using painting materials applied to compositional organizations. May be repeated for credit. (Fall, Spring)

ART 235. Ceramics (G-1) 3 hours

Fundamentals of the preparation and use of clay. Methods of fabrication from hand building to wheel-thrown wares, chemistry and application of glazes, and stacking and firing of kilns. May be repeated for credit. A \$20 fee is applied toward necessary supplies. (Fall)

***ART 311-312. Painting III, IV 3,3 hours**

Prerequisite: ART 221 or permission of instructor.

Advanced problems in painting. May be repeated for credit. (Fall, Spring)

***ART 313-314. Drawing III, IV 3,3 hours**

Prerequisite: 104-105 or permission of instructor.

A course designed to give the student increased experience in the application of drawing media to the production of art. This course may be repeated for credit. (Fall, Spring)

ART 295/495. Directed Study (W) 1-3 hours

For students electing to take ART 295, permission of the teacher must be obtained. ART 495 is for majors and minors only. The course is designed for students who wish directed study or for a group of students who wish a special course not taught under the regular class offering. Students taking the class as directed study may choose from art history, ceramics, design, drawing, painting, printmaking, and sculpture. (Students must have had maximum classes offered in area.) This course also includes credit offered by the Art Department on directed study tours. May be repeated for credit up to four times. Writing emphasis for ART 495 only.

***ART 499. Senior Project 1 hour**

Major projects in area of interest for seniors and preparation of permanent portfolio of college art work. (Spring)

ART HISTORY**ART 218 or 318. Art Appreciation (D-3), (W) 3 hours**

Lecture and travel seminar. One class is offered in the fall semester, with two hours per week lecture, and the week of Thanksgiving spent in Washington, D.C., and New York City visiting major art museums. When offered in the first summer session, there will be one week of two-hour lectures and two weeks of travel and museum visits. There is an additional charge for travel. Students will be required to write a summary paper. Students taking the class for upper-division credit will be required to write a research paper.

ART 344. History of Art (D-3), (W) 3 hours

A study of the arts of western civilization from antiquity to the mid-1800's with an emphasis on pivotal figures in art history. (Fall)

ART 345. Contemporary Art (D-3), (W) 3 hours

Nineteenth- and twentieth-century developments in European and American arts. (Spring)

EDUCATION

EDUC 230. Elementary Methods in

Curriculum and Instruction: Art

2 hours

A study of the aims, philosophy, and methods of teaching art on the various levels of the elementary school.

*EDUC 438. Methods of Teaching Art

2 hours

Prerequisite: Admission to Teacher Education (secondary program).

Attention is given to methods and materials of instruction, planning, testing, and evaluating student performances, the survey and evaluation of textbooks. Four lectures each week of the first half of the first semester during the senior year.

(D-3), (G-1), (W) See pages 15-18 for explanation of General Education requirements.

ART 492. Senior Project

1 hour

Senior project in art. (Spring)

ART 493. History of Art (D-3) (W)

3 hours

History of art from the Middle Ages to the present.

ART 494. History of Art (D-3) (W)

3 hours

A study of the art of western civilization from antiquity to the mid-1800's. A research paper must be submitted to 501-401 TRA.

ART 495. History of Art (D-3) (W)

3 hours

A study of the art of western civilization from antiquity to the mid-1800's. A research paper must be submitted to 501-401 TRA.

BEHAVIORAL SCIENCE

Chairman: Ed Lamb

Faculty: Larry Williams

The Behavioral Science faculty fully support the educational philosophy and objectives of Southern College. More specifically, this faculty embraces the following beliefs:

- (1) God is not only the Creator and Sustainer of all life, but also the ultimate Source of all knowledge.
- (2) Man is created in the image of God, and possesses harmonious physical, mental, spiritual, and social attributes.
- (3) A loving God seeks to restore his image in humanity, thus preparing them for personal fellowship with Himself.

We understand a redemptive education must focus on the growth of the whole person. The Behavioral Science faculty commits itself, therefore, to achieving the following objectives:

Spiritual

Behavioral Sciences majors will acquire an understanding of the basic beliefs and values of Christianity as presented by the Seventh-day Adventist Church. We, as their teachers, will provide class devotionals, Christian-service applications, and the encouragement for them to commit themselves to such ideals.

Intellectual

Those studying Behavioral Science at this college will perceive themselves as Christian scholars beginning a lifelong pursuit of knowledge. We have designed course-related activities and investigations to aid them in achieving intellectual and career goals, and in acquiring the necessary tools for future learning. The Behavioral Science curriculum is structured so as to encourage critical thinking, perceptive discussion, intellectual curiosity, and cultural awareness.

Social

Behavioral Science students are expected to develop positive interpersonal skills, communication techniques, and decision-making approaches. The teachers in this program strongly emphasize the attitudes of acceptance, caring, patience, and service.

Physical

Students in Behavioral Science are encouraged to develop a holistic view of mankind in appreciation for the interactive nature of our physical, mental, social, and spiritual being. They are expected to establish balanced programs of exercise, rest, diet, study, work, and recreation. The faculty promotes such positive values and practices through example and instruction.

Students wishing to prepare for graduate study in community and/or

Behavioral Science

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family counseling, law, personnel work, and sociology of the family should consider a Behavioral Science major with a Family Studies emphasis. The Bachelor of Science in Social Work (BSW) is offered for those students seeking preparation for entry-level generalist baccalaureate practice positions. Registered nurses will find a major in some area of Behavioral Science an excellent foundation for public health and psychiatric work. To achieve a complete preparation in these fields, however, the student is encouraged to consider further training at the graduate level.

PROGRAMS IN BEHAVIORAL SCIENCE

Major (B.S., Family Studies Emphasis): Forty-five hours, including BHSF 384; PSYC 124, 128, 233, 315; SOCI 125, 223, 424, 295 or 495, 349, 365; SOCW 211, 212; CFSC 147, 201, 202. Cognate requirements: MATH 215 and three hours in Biology. Remaining course work will normally be chosen from the following courses: PSYC 377; SOCW 375.

TYPICAL SEQUENCE OF COURSES FOR B.S. BEHAVIORAL SCIENCE (Family Studies Emphasis)

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
ENGL 101-102	College Composition	3	3	CFSC 201-202	Parenting I, II	2	2
SOCI 125	Intro to Sociology	3		ECON 213	Survey of Economics	3	
PSYC 124	Intro to Psych		3	SOCW 211	Intro to Social Work	3	
CFSC 147	Fam Resource Mgmt	3		SOCW 212	Social Welfare Insts		3
PSYC 128	Dev Psychology		3	SOCI 223	Marriage & Family	2	
	Area G, Act Skills	2	1	SOCI 233	Human Sexuality		3
	Area B, Religion		3		Area D-4, Speech		2
	Area E-1, Biology		3		Area B, Religion		3
	Area A-2, Math		0-3		Area C-1, History		3
	Minor or Elective	1	3-0		Area D, Lang/Lit/Fine Arts		3
		15	16			16	16
YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
MATH 215	Statistics	3		BHSF 384	Research Methods	3	
PSYC 315	Abnormal Psych		3	SOCI 349	Aging and Society		3
SOCI 365	Family Relations		3	SOCI 424	Contemp Soc Problems		3
SOCI 495	Directed Study		1		Area B, Religion (U.D.)		3
	Area B, Religion		3		Area G, Act Skills		2
	Area D, Lang/Lit/Fine Arts		4		Minor or Electives		5
	Area E, Chem/Phys/E. Sci		3		PSYC & SOCW Electives		9
	Area G-3, Recreation		1			16	14
	Minor or Electives	6	4				
		16	15				

See pages 12, 13 and 15-18 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

A student contemplating graduate study should take as many courses as possible in the area of his emphasis.

Major (B.S.W., Social Work): Forty-five hours including BHSF 384; SOCW 211, 212, 313, 314, 315, 424, 434, 435, 436; PSYC 124, 128; SOCI 125. Cognate requirements: PLSC 254 or ECON 213; MATH 215; any human biology.

TYPICAL SEQUENCE OF COURSES FOR B.S.W. SOCIAL WORK

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
ENGL 101-102	College Composition	3	3	SOCW 211	Intro to Social Work	3	
PSYC 124	Intro to Psychology		3	SOCW 212	Social Welfare Insts		3
SOCI 125	Intro to Sociology	3		ECON 213	Survey of Economics	3	
PSYC 128	Dev Psyc	3			Area G, Skills		2
	Area D-4, Speech	3			Area E-1, Biology		3
	Area B, Religion	3			Area B, Religion	3	
	Area A-2, Math		0-3		Area C-1, History	3	3
	Area G, Skills		2		Area D, Lang/Lit/Fine Arts		3
	Elective		5		Elective	4	2
		15	16			16	16
YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
SOCW 313	HBSE	3		SOCW 424	Contemp Soc Problems		3
SOCW 314	Social Work Meth I	3		SOCW 434	Social Welfare Issues & Policies		3
SOCW 315	Social Work Meth II		3	SOCW 435-436	Practicum I, II	4	4
MATH 215	Statistics	3		SOCW	Elective		1
BHSF 384	Research		3		Area G-3, Recreation		1
	Area B, Religion	3			Area G, Skills		3
	Area D, Lang/Lit/Fine Arts		3		Area B, Religion (U.D.)	3	
	Area E, Natural Science	3			Elective		6
	Elective, Social Work		3			15	16
	Elective		4				
		15	16				

See pages 12, 13 and 15-18 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Minor—Behavioral Science. Eighteen hours selected from any Behavioral Science areas and including PSYC 124, SOCW 211, and SOCI 125, with a minimum of six hours of upper division Behavioral Science classes.

Minor—Sociology. Eighteen hours including SOCI 125, 424, and 427.

BEHAVIORAL SCIENCE FOUNDATIONS

BHSF 384. Research Methods (W) 3 hours

Prerequisite: MATH 215.

An introduction to common research design and methodology. Descriptive and relational designs are examined. A semester research proposal and completed project is expected of each student. (Fall)

SOCIAL WORK

- SOCW 211. Introduction to Social Work (F-1) 3 hours**
An introduction to the profession of social work, its historical roots, its values, and its fields of practice.
- SOCW 212. Social Welfare as an Institution (F-1) 3 hours**
Social welfare systems are viewed from both historical and philosophical perspectives. The role of the Seventh-day Adventist Church in meeting human need is also examined. Not open to students who have taken SOCW 221.
- SOCW 233. Human Sexuality (F-1 or F-2) 3 hours**
See SOCI 233 for course description.
- SOCW 313. Human Behavior and the Social Environment 3 hours**
Prerequisites: SOCI 125, PSYC 124, 128, SOCW 212 or permission of instructor.
A study of the interaction between human behavior and the social environment. Relevant concepts from the behavioral sciences will be reviewed to provide students with a holistic view of human behavior. Includes such topics as systems theory, roles, reference groups, and social stratification. To be taken prior to or concurrently with SOCW 314.
- SOCW 314. Social Work Methods I (W) 3 hours**
Prerequisite: SOCW 212 or permission of instructor.
Provides students with theoretical framework for generalist social work practice. Topics include the establishment of relationship, assessment, contracts, intervention, utilization of resources, social work values and ethics. Work with individuals and families is emphasized in the first semester of a two-semester sequence.
- SOCW 315. Social Work Methods II (W) 3 hours**
Prerequisite: SOCW 314 or permission of instructor.
A continuation of SOCW 314. The primary focus is on working with small groups and the community. Public policy development and implementation are also studied.
- SOCW 349. Aging and Society 3 hours**
See SOCI 349 for course description.
- SOCW 374. Criminology 3 hours**
See SOCI 374 for course description.
- SOCW 375. Introduction to Family Intervention (F-1) 3 hours**
An introduction to the various theoretical orientations of family intervention. The family is viewed as a unit, with focus on programs and crisis techniques designed to maintain and re-establish family equilibrium.
- SOCW 424. Contemporary Social Problems (F-1) 3 hours**
See SOCI 424 for course description.

SOCW 434. Social Welfare Issues and Policies 3 hours

A study of contemporary issues and policies that influence the delivery of social services. Not open to students who have taken SOCW 222.

SOCW 435. Social Work Practicum I 4 hours

Prerequisite: SOCW 314.

This course provides opportunity for students to apply practice theory to develop skills for generalist social work practice. Through participation in the social service delivery system, the student becomes familiar with agency structures, functions, and programs. A minimum of 200 hours will be spent working in an agency setting for each four hours of course work.

SOCW 436. Social Work Practicum II 4 hours

This course builds on the experiences of the first semester practicum and progresses to more difficult and varied tasks.

SOCW 295/495. Directed Study 1-3 hours

Prerequisite: SOCW 221 or permission of the instructor.

Study of special topics pertinent to the field of social work. Content will vary among such topics as child welfare, income maintenance, values and ethics of social work practice, etc. The selected topic is pursued for the entire semester. This course can be repeated for credit for a total of not more than three hours credit. (Fall)

SOCW 296/496. Study Tour (F-1) 1-3 hours

Two tours are scheduled annually for the purpose of studying a range of behavioral science topics. The fall trip to New York City occurs during Thanksgiving vacation and focuses on ethnicity, social problems, urban change, and social agencies (1 hour). The spring trip to New England occurs during the May summer session and focuses primarily on ethnic studies (3 hours). An additional fee is required to cover travel expenses.

SOCIOLOGY**SOCI 125. Introduction to Sociology (F-1) 3 hours**

An objective approach to the analysis and understanding of the social world. Consideration is given to the dynamic nature of American society and social institutions. Emphasis is placed on the study of social groups including the family, its history and current place in society. (Fall, Spring, Summer)

SOCI 223. Marriage and the Family (F-2) 2 hours

A course in the ethics of human relationships, including the place of the family in society and the Christ-centered approach to marital and familial conflicts. (Fall, Spring)

SOCI 224. Social Psychology (F-1) 3 hours

(See Psychology area listings.)

SOCI 233. Human Sexuality (F-1 or 2) 3 hours

A study of human sexual behavior, relationships, and values as reflected in the Christian cultural setting.

SOCI 316. Community Organization and Policy (F-1) 3 hours
(See Social Work area listings.)

SOCI 349. Aging and Society (F-1) 3 hours
The course emphasizes the reciprocal impact of societal attitudes on the process of aging and the increasing influence of "mature citizens" in contemporary society. Historical, demographic, and future trends are explored. A balance between the theoretical and the applied is sought. (Spring)

SOCI 356. Natives and Strangers (F-1) (W) 3 hours
(See HIST 356 under History listings.)

SOCI 365. Family Relations (F-2) 3 hours
A sociological analysis of family structures and functions. Attention will be given to courtship, family organization and interaction, family disorganization and reorganization, and the post-parental family. Emphasis will be given to findings of recent family studies. (Spring)

SOCI 374. Criminology (F-1) 3 hours
This course emphasizes the scientific study of crime as a social phenomenon, of criminals, and of penal treatment. The relationship of law and crime to other trends in the social order. Research in prevention and treatment of crime. (Fall, odd years)

SOCI 424. Contemporary Social Problems (F-1) 3 hours
Attention is given to the major forces shaping cultural and subcultural changes today. Changes are particularly viewed as to their effectiveness in bringing about group and mass adjustment. (Spring)

SOCI 427. Sociological Theory Development (F-1), (W) 2 hours
Prerequisite: SOCI 125.
This course focuses on the emergence of sociology as a systematic discipline. A critical analysis of sociological theory is made from 1850-1920, including Comte, Tocqueville, Spencer, Marx, Weber, Durkheim, Simmel, and Pareto. (Fall, even years)

(F-1), (F-2), (W) See pages 15-18 for explanation of General Education requirements.

SOCI 295/495. Directed Study (F-1) 1-3 hours
Prerequisite: SOCI 125 or permission of the instructor.

Study of special topics pertinent to the area of sociology. Content will vary among such topics as the sociology of women, social conflict and change, Black America, the sociology of education, etc. The selected topic is pursued for the entire semester. This course can be repeated for credit for a total of not more than three hours credit. (Spring)

SOCI 296/496. Study Tour (F-1) 1-3 hours
Two tours are scheduled annually for the purpose of studying a range of behavioral science topics. The fall trip to New York City occurs during Thanksgiving vacation and focuses on ethnicity, social problems, urban change, and social agencies (1 hour). The spring trip to New England occurs during the May summer session and focuses primarily on ethnic studies (3 hours). An additional fee is required to cover travel expenses.

BIOLOGY

Chairman: Stephen A. Nyirady

Faculty: Edgar Grundset, Duane Houck, Marcie Woolsey

The study of Biology constitutes one of the most exciting and important fields of scientific investigation, since it provides a better understanding of ourselves and the living things around us. Even the casual observer of Biology who pauses long enough to take a course may derive a lifetime of pleasure and fulfillment from a hobby such as bird watching, shell collecting, or wildflower photography.

More importantly, a major in Biology is an excellent starting point for numerous careers which are both rewarding and challenging. With a B.S. degree in Biology, one may pursue graduate study leading to research in the basic sciences (anatomy, physiology, ecology, microbiology, cytology, etc.), teaching at the college or graduate level, industry, or government. The B.A. degree is the degree of choice in preparation for high-school teaching, medicine, dentistry, optometry, careers in wildlife, forestry or zoo management, health education, public health, biostatistics, epidemiology, and environmental health, to name a few.

DEGREES IN BIOLOGY

Core Courses:

BIOL 151-152	General Biology
BIOL 316	Genetics
BIOL 412	Cell Biology
BIOL 424	Issues in Natural Science and Religion
BIOL 485	Biology Seminar

Areas:

Botany:

BIOL 408	Flowering Plants
BIOL 409	Smoky Mountain Flora
BIOL 419	Plant Physiology

Ecology:

BIOL 226	Environment and Man
BIOL 317	Ecology
	Marine Biology Courses

Vertebrate Field Courses:

BIOL 314	Ornithology
BIOL 318	Ichthyology
BIOL 319	Herpetology
BIOL 411	Mammology

Microbiology:

BIOL 315	Parasitology
BIOL 330	General Microbiology
BIOL 340	Immunology

Basic Zoology:

BIOL 313	Embryology
BIOL 415	Comparative Anatomy
BIOL 417	Animal Histology
BIOL 418	Animal Physiology

Major (B.A.): Thirty-one hours including Biology core of 19 hours, plus one course from each of four areas. Cognate requirements: CHEM 151-152 General Chemistry, CHEM 311-314 Organic Chemistry, and a computer course; PHYS 211-214 General Physics is highly desirable. A minor in Chemistry is recommended.

TYPICAL SEQUENCE OF COURSES FOR B.A. BIOLOGY (Chemistry Minor Recommended)

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
ENGL 101-102	College Composition	3	3	CHEM 151-152	General Chemistry	4	4
BIOL 151-152	General Biology	4	4	BIOL 316	Genetics	4	
MATH 114	Precalculus	3			Area G-2, Computer Science		3
RELB 125	Teaching of Jesus	3			Area G-3, Recreational Skills		1
RELT 138	Adventist Heritage		3		Area D, Lit/Fine Arts/Spch	3	
	Area F-2,3, Fam/Hlth Sci	2			Area B, Religion		3
	Area G, Skills	1	1		Biology Electives	3	3(4)
	Elective		5		Elective	2	
		16	16			16	14(15)
YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
CHEM 311-312	Organic Chemistry	3	3	BIOL 424	Issues of Nat Sci & Rel	3	
CHEM 313-314	Organic Chemistry Lab	1	1	BIOL 485	Biology Seminar	1	
PHYS 211-212	General Physics	3	3	CHEM 323	Biochemistry		4
PHYS 213-214	Gen Physics Lab	1	1		Biology Elective	3	
BIOL 412	Cell Biology	3			Area B, Religion (UD)		3
	Biology Elective		3		Area C-1, History	3	3
	Area D-1, Foreign Language	3	3		Area C-2, Poli Sci/Econ	3	
	Electives	2	2		Area F-1, Behavioral Science		3
		16	16		Electives	3	3
						16	16

See pages 12, 13 and 15-18 for general degree and general education requirements. Note especially the requirements for make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Major (B.S.): Forty hours including Biology core of 19 hours, plus one course from each of the five areas. Cognate requirements: CHEM

151-152 General Chemistry, CHEM 311-314 Organic Chemistry, MATH 114 Precalculus, MATH 215 Statistics, and a computer course. PHYS 211-214 General Physics is highly recommended.

TYPICAL SEQUENCE OF COURSES FOR B.S. BIOLOGY

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
BIOL 151-152	General Biology	4	4	CHEM 151-152	General Chemistry	4	4
ENGL 101-102	College Composition	3	3	HIST 154, 155	American History		
MATH 114	Precalculus	3			OR	3	3
RELB 125	Teaching of Jesus	3		HIST 174, 175	Survey of Civilizations		
	Biology Elective		3	BIOL 316	Genetics		4
	Area F-2,3, Fam/Hlth Sci	2		MATH 215	Statistics		3
	Area G-3, Recreational Skills	1			Biology Elective		3
	Area D, Lang/Lit/Fine Arts		3		Area F-1, Behavioral Science		3
	Elective		2		Area G-1, Creative Skills	2	
		16	15		Area B, Religion		3
						16	16
YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
CHEM 311-312	Organic Chemistry	3	3	BIOL 485	Biology Seminar	1	
CHEM 313-314	Organic Chemistry Lab	1	1	BIOL 424	Issues of Nat Sci & Rel	3	
PHYS 211-212	General Physics	3	3		Biology Electives	6	6(7)
PHYS 213-214	General Physics Lab	1	1		Area D-2, Lang/Lit/Fine Arts		3
BIOL 412	Cell Biology	3			Area C-2, Poli Sci/Econ		3
	Area D, Lang/Lit/Fine Arts		3		Area G-2, Computer Science	3	
	Biology Electives		6		Area B, Religion (UD)	3	
	Area B, Religion	3			Elective		3
		14	17			16	15(16)

See pages 12, 13 and 15-18 for general degree and general education requirements. Note especially requirements for make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Minor: Eighteen hours including BIOL 151-152 General Biology. A course in physiology is strongly recommended. A minimum of six hours must be in upper division.

Teaching Endorsement: See Education and Psychology Department.

NON-MAJOR, NON-MINOR COURSES

BIOL 101-102. Anatomy and Physiology (E-1) 3,3 hours

A study of the fundamentals of human anatomy and physiology. The first semester covers basic cytology, histology, the musculoskeletal, integumentary, nervous, and endocrine systems. The remainder of the body systems are studied the second semester. Two lectures and one three-hour laboratory period each week. Does not apply on a major or minor in Biology. (Fall, Spring, Summer)

BIOL 103. Principles of Biology (E-1) 3 hours

This is a basic general education biology course designed to give the student a modern treatment of the fundamental processes and principles of plant and animal life. Three lectures each week. Does not apply on a major or minor in Biology. (Fall, Spring)

BIOL 104. Principles of Biology Lab (E-1) 1 hour

Prerequisites: Previous or concurrent enrollment in BIOL 103.

Laboratory exercises designed to illustrate the principles learned in BIOL 103. Three hours of laboratory each week. Does not apply on a major or minor in Biology. (Fall, Spring)

BIOL 125. Basic Microbiology (E-1) 4 hours

A study of the principles of microbiology, various types of microorganisms and their relation to health and disease. Three lectures and two one and a-half-hour laboratory periods each week. Does not apply on a major or minor in Biology. (Fall, Spring, Summer)

CORE COURSES

BIOL 151-152. General Biology (E-1) 4,4 hours

This is a rigorous introductory course in Biology primarily for Biology majors and pre-professional students. The course is designed to give the student a solid foundation in the fundamental processes of plant and animal life. It is prerequisite to most all other Biology major courses. Three lectures and one three-hour laboratory period each week. (Fall, Spring)

BIOL 316. Genetics 4 hours

Prerequisite: BIOL 125 or 151, or consent of instructor.

A study of heredity as related to man, domestic plants and animals and an investigation of gene structure and function. Three lectures and one three-hour laboratory period each week. (Fall)

BIOL 412. Cell Biology 3 hours

Prerequisites: BIOL 151-152; BIOL 316.

This course, designed for advanced Biology and Chemistry majors, deals primarily with cell structure and function. Building on cellular principles learned in BIOL 151-152, the student is exposed to methods of cellular research while learning about the appearance and operation of cellular organelles. The exciting details of cell integration and control provide the framework for this interdisciplinary study. Three lectures each week. (Fall)

BIOL 424. Issues of Natural Science and Religion (E-1) (W) 3 hours

Prerequisite: Senior standing.

A study of the philosophical basis of modern natural science as it relates to current issues in origins, biotechnology, bioethics, and environmental responsibility. Special attention is given to Christian perspectives of the issues discussed. Credit can be applied toward either Biology or Religion. Three lectures each week. (Fall)

BIOL 485. Biology Seminar (W)**1 hour**

Prerequisite: Biology major or minor with senior standing.

Reports are made on some specific problem in the field of Biology and on current literature in the field. To be taken in the senior year or with approval of Department Chairman. (Fall)

BOTANY**BIOL 408. Flowering Plants****3 hours**

Prerequisite: BIOL 151-152 or consent of instructor.

A study of flowering plants in their natural environment and detailed microscopic study of them in the laboratory. Students will learn to identify plants with the aid of botanical keys and to recognize plant families. The importance of accurate plant identification is revealed by the study of poisonous plants, plants of medical importance, and noxious weeds. Two lectures and one field trip or laboratory period each week. (Fall)

BIOL 409. Smoky Mountain Flora**3 hours**

Prerequisite: BIOL 152 or consent of instructor.

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

BIOL 419. Plant Physiology**3 hours**

Prerequisite: BIOL 151-152 and CHEM 151-152 or consent of instructor.

A study of the functions of seed plants. Topics covered include water relations, mineral nutrition, photosynthesis, transpiration, translocation, respiration, and growth. Two lectures and one three-hour laboratory period each week. (Spring)

ECOLOGY**BIOL 226. Environment and Man (E-1)****3 hours**

This very relevant course introduces the student to the very complex interlocking environmental problems facing us today. Beginning with basic ecological principles, the course goes on to examine population dynamics, energy utilization, resource consumption and the various forms of pollution. These issues are all discussed in terms of a balanced and rational ecological approach. Two lectures and one three-hour laboratory period each week. (Spring)

BIOL 317. Ecology**3 hours**

Prerequisite: BIOL 151-152 or consent of instructor.

Ecology is a study of the interrelationships of plants, animals and their environment. This course will examine these interactions in the context of energy flow, nutrient cycles, limiting factors, succession and population dynamics. Field work will introduce various ecological sampling techniques and the student will participate in ecological analysis of various local communities as well as extended field trips. Two lectures and one field trip or laboratory period each week. (Fall)

VERTEBRATE FIELD COURSES

- BIOL 314. Ornithology (E-1)** **3 hours**
A systematic study of bird life with special emphasis on external features, taxonomy, nesting and feeding habits, flight and migratory patterns. Two lectures and one laboratory period each week. An extended field trip, which applies toward laboratory credit, is planned during spring vacation. There is an additional charge for the trip. (Spring)
- BIOL 318. Ichthyology** **3 hours**
Prerequisite: BIOL 151-152 or consent of instructor.
A systematic study of the fishes found in the local area, with a survey of the fishes of other waters. Two lectures and one three-hour laboratory period each week. (Taught every third year)
- BIOL 319. Herpetology** **3 hours**
Prerequisite: BIOL 151-152 or consent of instructor.
A systematic study of amphibians and reptiles of the local area, with a survey of amphibians and reptiles of other areas. Two lectures and one three-hour laboratory period each week. (Taught every third year)
- BIOL 411. Mammalogy** **3 hours**
Prerequisites: BIOL 151-152 or consent of instructor.
A study of the mammals of the world, with emphasis on North America. Includes classroom and field study of systematics, distribution, behavior and ecology. Two lectures and one three-hour laboratory each week. (Taught every third year)

MICROBIOLOGY

- BIOL 315. Parasitology (W)** **3 hours**
Prerequisite: BIOL 151-152 or consent of instructor.
A general survey of the more important parasites of man and domestic animals. Two lectures and one three-hour laboratory period each week. (Spring)
- BIOL 330. General Microbiology** **4 hours**
Prerequisite: BIOL 151-152 or equivalent.
A general study of bacteria, yeasts, molds and viruses, considering their morphology, physiology, genetics and methods of control. Study will be given to immunology topics: antigen-antibody properties, host-antigen interactions, humoral and cellular immune systems. The importance of microorganisms in environmental and applied fields will be considered. Three lectures and one three-hour laboratory period each week. (Spring)
- BIOL 340. Immunology** **2 hours**
Prerequisite: BIOL 125 or 330.
A study of the basic aspects of the human immune system including topics such as antigen and antibody structure and reactions, humoral and cell mediated immunity, hypersensitivity, immune disease and transplantation immunology. Two lectures each week. (Spring)

BASIC ZOOLOGY

BIOL 313. Embryology **3 hours**

Prerequisite: BIOL 151-152 or consent of instructor.

An introduction to the development of the vertebrate animal with emphasis on the development of the chick. Two lectures and one three-hour laboratory period each week. (Fall)

BIOL 415. Comparative Anatomy **3 hours**

Prerequisite: BIOL 151-152 or consent of instructor.

A comparison of the anatomy of the various organ systems of vertebrates. The dogfish shark, mud puppy, cat, and/or fetal pig are used for laboratory study. Two lectures and one three-hour laboratory period each week. (Spring)

BIOL 417. Animal Histology **3 hours**

Prerequisite: BIOL 151-152 or consent of instructor.

A descriptive study of normal tissues, including those of man. The microscopic identification and characteristics of stained section are emphasized in the laboratory. Two lectures and one three-hour laboratory period each week. (Spring, odd years)

BIOL 418. Animal Physiology **3 hours**

Prerequisite: BIOL 102, 151-152, or equivalent and CHEM 151-152 or equivalent.

A study of the principles of animal function with special attention to man. Two lectures and one three-hour laboratory period each week. (Spring, even years)

SPECIAL COURSES

BIOL 295. Directed Study **1-3 hours**

See BIOL 495.

BIOL 365. Topics in Biology **1-3 hours**

Designed to meet the needs or interests of students in specialty areas of Biology not covered in regular courses. May be repeated in different specialized areas.

BIOL 495. Directed Study **1-3 hours**

Prerequisite: BIOL 151-152 or equivalent.

BIOL 495 open to Biology majors or minors only.

Designed for the student who wishes to do private study or for a group of students who wish a special course not listed in the regular offerings. Content and method of study must be arranged for prior to registration. (Fall or Spring)

BIOL 497. Introduction to Research (W) **1-2 hours**

Prerequisite: 20 hours of biology or permission of the instructor.

Individual research under the direction of members of the staff. Problems will be selected according to the interest and experience of the student.

Prior to registration students are urged to contact all biology staff members with respect to the choice of available research problems. This course should be taken not later than the first semester of the senior year. (Fall, Spring, Summer—on demand)

EDUCATION

EDUC 438. Methods of Teaching Biology **2 hours**

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials of instruction; planning, testing, and evaluating student performances; and the survey and evaluation of textbooks. Four lectures each week of the first half of the second semester during the senior year. (Spring)

(E-1), (G-2), (W) See pages 15-18 for explanation of General Education requirements.

ROSARIO BEACH MARINE BIOLOGICAL FIELD STATION

The Rosario Beach Marine Station is a teaching and research facility operated by Walla Walla College in affiliation with Southern College and other Adventist colleges. Located seven miles south of Anacortes, Washington, the station occupies 40 acres of beach and timberland, including a high hill and canyon.

In addition to some of the biology courses listed in this catalog, the following are among those taught during the summer at Rosario Beach:

BIOL 200. Introduction to Marine Biology **3 hours**

An overview course designed to introduce general education students to the biology and ecology of the marine environment. Course not applicable to Biology majors.

BIOL 475. Marine Invertebrates **3 hours**

A description of selected groups of marine invertebrates. The course will involve extensive collection, classification, and study of the marine invertebrates of the Puget Sound.

BIOL 516. Behavior of Marine Organisms **3 hours**

Prerequisites: Animal Behavior or Intro to Psychology.

A study of intra- and interspecific behaviors of marine animals and their behavioral responses to the physical environment. The course involves laboratory experiences, field observation, and a research project.

- BUSINESS AND OFFICE ADMINISTRATION -

Chairman: Wayne Vandevere

Faculty: Kim Arellano, Joyce Cotham, Richard Erickson, David Haley, Evonne Richards, Cecil Rolfe, Dan Rozell, Peg Smith, Ken Spears

Adjunct Faculty: Daniel Gray, Richard J. Henry, Jr., Dale Lind, Doug Malin

Advisory Councils:

Accounting: Doug Bullard, Michael Creamer, Ben Kochenower, Dennis Millburn, Ed Reifsnnyder

Management: Grady Gant, James McElroy, Bill McGhinnis, Jack McKee, James Williams

Long-Term Health Care: Dale Lind, Marvin Midkiff, Clifford Port, Forrest Preston, Ben Wygal, Jan Rushing, Ray Tutwiler

The courses and programs offered by the department are designed to prepare students for business-related careers with the church, government, industry, and in long-term health care and to train students for secretarial, office work, and office administration in the modern office.

The objectives of the department are:

1. To give the student a broad background of knowledge of the free enterprise system within a framework of moral and ethical guidelines.
2. To assist the student to develop a sound Christian philosophy toward our current economic environment and the ever-changing business world of the future.
3. To provide the student with a quality academic program with basic business skills required for initial job placement.
4. To encourage Seventh-day Adventist students to serve as workers and in positions of business leadership with organizations sponsored by this denomination.
5. To train office managers, administrative assistants, executive secretaries and word processing operators and managers.
6. To provide the necessary academic background for entrance into most graduate degree programs in business.

The department offers a Bachelor of Business Administration degree (B.B.A.) with majors in Accounting, Management, and Computer Information Systems and a Bachelor of Science degree (B.S.) with majors in Business Administration, Long-Term Health Care, and Office Administration.

For those who desire a two-year program, an Associate of Science degree (A.S.) is available in Accounting and Office Administration with major options in executive, medical, and word processing. A program in Pre-medical Records Administration is also available.

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Students wishing to receive teacher certification in Business or Office Administration must also satisfy the professional teacher education requirements (see Education listings).

PROGRAMS IN BUSINESS AND OFFICE ADMINISTRATION

B.B.A. Core Requirements: The B.B.A. degree requires a basic core of business courses plus a major in Accounting, Management, or Computer Information Systems.

Basic Core Course requirements are as follows: ACCT 121-122, 321; ECON 224, 225; BUAD 313, 314, 315, 326, 334, 358. Among the General Education requirements, the B.B.A. degree students must include SPCH 135, CPTR 106, 126, MATH 181 and a course in psychology. BUAD 315 and 326 are not required for the major in Computer Information Systems.

Major—Accounting: 30 hours plus the B.B.A. Core Requirements: ACCT 211-212, 322, 415, 417, 421; BUAD 339, 488; SECR 315.

TYPICAL SEQUENCE OF COURSES FOR B.B.A. ACCOUNTING

YEAR 1		Semester 1st 2nd		YEAR 2		Semester 1st 2nd	
ACCT 121-122	Princ of Accounting	3	3	ECON 224-225	Princ of Economics	3	3
ENGL 101-102	College Composition	3	3	ACCT 211-212	Intermediate Acct	3	3
CPTR 106	Intro to Spreadsheet		1	SPCH 135	Intro to Public Spkng		3
CPTR 126	Spreadsheet Application		2		Area B, Religion	3	
MATH 104	Intermediate Algebra	3			Area E, Natural Sci		3
	Area B-1, Religion	3			Area D-2, Literature	3	
	Area F-1, Psychology		3		Area G-1 or G-3, Skills		1
	Area C-1, History	3	3		Area F-2, Fam/Hlth Sci		2
	Area G-3, Rec Skills	1		MATH 181	Calculus I		4
		16	15				16 15
YEAR 3		Semester 1st 2nd		YEAR 4		Semester 1st 2nd	
BUAD 339	Business Law		4	BUAD 334	Princ of Management	3	
ACCT 321-322	Cost Accounting	3	3	SECR 315	Bus Communications		3
BUAD 326	Intro to Marketing		3	BUAD 358	Legal, Ethical Env of Bus	3	
BUAD 315	Business Finance	3		BUAD 488	Seminar in Bus Admin		1
BUAD 313	Business Statistics	3		ACCT 421	Federal Income Taxes	3	
BUAD 314	Quant Meth for Bus Dec		3	ACCT 417	Auditing	4	
	Area B-2, Religion	3			Area B, Religion (U.D.)		3
ACCT 415	Advanced Accounting		4		Area D-3, Fine Arts App	3	
	Elective	1			Elective		2
	Area G-1 or G-3	1			Accounting Elective		3
		14	17		Area E, Natural Science		3
							16 15

See pages 12, 13 and 15-18 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Major—Management: 30 hours plus the B.B.A. Core Requirements: ACCT 211; BUAD 339, 344, 353, 355, 414, 488; ECON 314; SECR 315.

Business and Office Administration

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TYPICAL SEQUENCE OF COURSES FOR B.B.A. BUSINESS MANAGEMENT

YEAR 1		Semester 1st 2nd	YEAR 2		Semester 1st 2nd
ACCT 121-122	Prin of Accounting	3 3	ECON 224-225	Prin of Economics	3 3
ENGL 101-102	College Composition	3 3	ACCT 211	Intermediate Acctg	3
CPTR 106	Intro to Spreadsheet	1	SPCH 135	Intro to Pub Spkg	3
CPTR 126	Spreadsheet Application	2		Area B, Religion	3
	Area B-1, Religion	3		Area E, Natural Sci	3 3
	Area F-1, Psychology	3		Area D-2, Literature	3
	Area C-1, History	3 3		Area G-3, Rec Skills	1
	Area A-2, Math - Pre-Cal	0-3		Area F-2, Family/Health	2
	Area G-1 or G-3, Skills	1 1	MATH 181	Calculus I	4
	Elective	3-0			16 15
		16 16			
YEAR 3		Semester 1st 2nd	YEAR 4		Semester 1st 2nd
BUAD 339	Business Law	4	SECR 315	Bus Communications	3
BUAD 326	Intro to Marketing	3	ECON 314	Money & Banking	3
BUAD 315	Business Finance	3	BUAD 358	Legal, Ethical Env of Bus	3
BUAD 313	Business Statistics	3	BUAD 488	Sem in Bus Admin	1
BUAD 314	Quant Meth for Bus Dec	3	BUAD 414	Business Policies	3
ACCT 321	Cost & Manag Acctg	3	BUAD 353	Mgmt of Small Bus	3
BUAD 344	Human Resource Mgt	3	BUAD 355	Organizational Behav	2
BUAD 334	Prin of Management	3		Area B, Religion (U.D.)	3
	Area B-2, Religion	3		Area D-3, Fine Arts App	3
	Elective	3		Elective in Business	3 3
		15 16			15 15

See pages 12, 13 and 15-18 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Major—Computer Information Systems: 39 hours plus the B.B.A.
Core Requirements: CPTR 126, 131-132, 217, 317, 318, 319, 324, 325, 326, 413, 485; eight hours in CPTR, BUAD, ACCT, or ECON.

TYPICAL SEQUENCE OF COURSES FOR B.B.A. COMPUTER INFORMATION SYSTEMS

YEAR 1		Semester 1st 2nd	YEAR 2		Semester 1st 2nd
ACCT 121-122	Prin of Accounting	3 3	ECON 224-225	Prin of Economics	3 3
CPTR 131-132	Fund of Programming	3 3	CPTR 217	COBOL Programming	3
ENGL 101-102	College Composition	3 3	CPTR 317	Intro to File Processing	3
CPTR 106	Intro to Spreadsheet	1		Area B, Religion	3
CPTR 126	Spreadsheet Application	2		Area C-1, History	3 3
	Area A-2 Pre-Cal	0-3		Area D-3, Fine Arts	3
SPCH 135	Intro to Pub Speaking	3		Area E, Natural Science	3
	Area B-1, Religion	3		Area G-3, Rec Skills	1
	Area G-1 or G-3, Skills	1 1	MATH 181	Calculus I	4
		16 16			16 16

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	YEAR 3	Semester			YEAR 4	Semester	
		1st	2nd			1st	2nd
ACCT 321	Cost & Managerial Acct I	3		BUAD 315	Business Finance (Rec.)	3	
BUAD 313	Business Statistics	3		BUAD 326	Intro to Marketing (Rec.)		3
BUAD 314	Quant Methods-Bus Decisions		3	BUAD 358	Legal-Ethical Env	3	
BUAD 334	Principles of Management	3		CPTR 326	Systems Management	2	
CPTR 318	Data Structures	3		CPTR 485	Computer Science Seminar		1
CPTR 319	Data Base Mgmt Systems		3		Area B, Religion (U.D.)		3
CPTR 324	Systems Analysis	2			Area E, Natural Science	3	
CPTR 325	Systems Design		2		Area F, Psychology		3
	Area B, Religion		3		Electives in Major		5
	Area D-2, Literature		3		General Elective	3	
	Area F-2, Family Sci						14
	OR		2				15
	Area F-3, Health Sci						
			16	14			
	SUMMER						
CPTR 413	Software Dev Practicum		3				

(Recommended)

See pages 12, 13 and 15-18 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

BACHELOR OF SCIENCE DEGREES

Major—Business Administration: 47 hours: ACCT 121-122, 211; BUAD 313, 314, 315, 326, 334, 339, 358, 414, 488; ECON 224, 225; Six hours of electives in accounting courses. Cognate requirements: CPTR 106, 126, and SECR 315.

TYPICAL SEQUENCE OF COURSES FOR B.S. BUSINESS ADMINISTRATION

	YEAR 1	Semester			YEAR 2	Semester	
		1st	2nd			1st	2nd
ACCT 121-122	Princ of Accounting	3	3	ECON 224-225	Princ of Economics	3	3
ENGL 101-102	College Composition	3	3	ACCT 211	Intermediate Acctg	3	
CPTR 106	Intro to Spreadsheet		1		Area F-1, Psychology		3
CPTR 126	Spreadsheet Application		2		Area B, Religion		3
SPCH 135	Intro to Public Spkg		3		Area D-2, Literature		3
MATH 104	Intermediate Algebra	3			Area G-3, Rec Skills	1	
	Area B-1, Religion		3		Area E, Natural Sci		3
	Area C-1, History		3		Elective	3	6
	Area G-1 or G-3, Skills		1				15
			16	16			

Business and Office Administration

YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
BUAD 339	Business Law		4	BUAD 414	Business Policies		3
BUAD 313	Business Statistics	3		BUAD 488	Seminar in Bus Admin		1
BUAD 314	Quant Meth for Bus Dec		3	SECR 315	Business Communications	3	
BUAD 334	Princ of Management	3			Area F-2, Fam/Hlth Sci	2	
BUAD 326	Intro to Marketing		3		Area B, Religion (U.D.)	3	
BUAD 315	Business Finance	3			Area D-3, Fine Arts App	3	3
	Area B, Religion		3		Elective in Accounting	3	3
	Area E, Natural Sci		3		Elective	4	6
	Elective		3			15	16
BUAD 358	Legal, Ethical, Env of Bus		3				
			15				16

See pages 12, 13 and 15-18 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Major—Long-Term Health Care: 48 hours: ACCT 121-122, 211; BUAD 315, 334, 339, 358, 431, 432, 434, 435, 497; ECON 224, 225. Cognate requirements: CPTR 106, 126, and SOCI 349.

Students who have previously earned a bachelor's degree from an accredited college or university and who have completed all class work required in a major in long-term health care other than the specialized classes in long-term health care, may receive a Bachelor of Science degree with a major in long-term health care upon the completion of 20 hours of long-term health care classes (BUAD 431, 432, 434, 435, 497).

This exception to the 30-hour residence requirement applies only to those who have completed all other major course requirements for the long-term health care degree at another institution and have received a bachelor's degree.

TYPICAL SEQUENCE OF COURSES FOR B.S. LONG-TERM HEALTH CARE

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
ACCT 121-122	Princ of Accounting	3	3	ACCT 211	Int Accounting		3
ENGL 101-102	College Composition	3	3	ECON 224-225	Princ of Economics	3	3
CPTR 106	Intro to Spreadsheet		1	SPCH 135	Intro to Public Spkg		3
CPTR 126	Spreadsheet Application		2		Area B, Religion		3
MATH 104	Intermediate Algebra		3		Area D-2, Literature		3
	Area B-1, Religion		3		Area E, Natural Sci	3	3
	Area C-1, History		3		Area F, Fam/Hlth Sci		2
	Area G-1 or G-3, Skills		1		Area G-3, Recreation Skills		1
	Area F-1, Psychology		3		Elective		3
			16				14
			16				16

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YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
BUAD 339	Business Law		4	BUAD 497	LTHC Admin Internship	8	
BUAD 315	Business Finance	3			Area B, Religion (U.D.)		3
BUAD 334	Princ of Management	3			Elective	3	8
SOCI 349	Aging & Society		3				11
	Area B-2, Religion	3					11
	Area D-3, Fine Arts App		3				
	Elective	3	6				
BUAD 358	Legal, Ethical, Env of Business	3					
			15				16

SUMMER (AFTER YEAR 3)

BUAD 431	Gen Admin of LTHC Facil	3	
BUAD 432	Tech Aspects of LTHC	3	
BUAD 434	Finan Mgt of LTHC Facil	3	
BUAD 435	Hum Res Mgt/Mkt LTHC	3	
			12

See pages 12, 13 and 15-18 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Associate of Science Degree Major—Accounting: 30 hours: ACCT 121-122, 211, 212, 321; BUAD 128, 358; ECON 213 or 224; Six hours of electives in ACCT, BUAD, or ECON. Cognate requirements: CPTR 106, 126; SECR 105 or equivalent.

TYPICAL SEQUENCE OF COURSES FOR A.S. ACCOUNTING

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
ACCT 121-122	Princ of Accounting	3	3	ACCT 211-212	Intermediate Acctg	3	3
ENGL 101-102	College Composition	3	3	ACCT 321	Cost Accounting I	3	
BUAD 128	Personal Finance	3			Area B-2, Religion		3
ECON 224	Princ of Economics		3		Area C-1, History	3	
	OR				Area D-2, Literature		
ECON 213	Survey of Economics				OR		3
CPTR 106	Intro to Spreadsheet		1		Area D-4, Speech		
CPTR 126	Spreadsheet Application		2		Area E, Natural Sci		3
	Area B-1, Religion	3			Business Elective	3	3
	Area F-1, Psychology		3		Elective	1	1
	Area G-3, Rec Skills	1		BUAD 358	Legal, Ethical, Env of Bus	3	
	Area A-2, Math		0-3				16
	Elective		4-1				16
			16				16

See pages 12, 13 and 15-18 for general degree and general education requirements. Note especially the requirements of make-up of admissions deficiencies.

Major—Office Administration: 47 hours: SECR 104, 114, 115, 213, 214, 216, 221, 223, 315, 317, 323, 324; ECON 213 or 224; BUAD 334; three hours of upper division electives in SECR, BUAD, ACCT, or ECON. Cognate requirements: ACCT 121-122, CPTR 120 or equivalent.

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MINORS IN BUSINESS AND OFFICE ADMINISTRATION, 18 hours:

Business Administration: ACCT 121-122; ECON 213 or 224; BUAD 334 or 344; and 6 hours in ACCT, BUAD, or ECON including 3 hours upper division.

Office Administration: SECR 214 and 15 hours from courses in Office Administration, six of which must be upper division.

Pre-Health Information Administration Program (Formerly Pre-Medical Records Administration Program)—BIOL 101-102; MATH 103; PSYC 124; BIOL 151-152; SECR 115; ACCT 121-122.

TYPICAL SEQUENCE OF COURSES FOR A.S. HEALTH INFORMATION ADMINISTRATION Formerly Medical Records Administration (Allied Health Professions)

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
ENGL 101-102	College Composition	3	3	ACCT 121-122	Prin of Accounting	3	3
BIOL 101-102	Anatomy & Physiology	3	3	SOCI 223	Marriage & the Family	2	
PSYC 124	Intro to Psychology	3			Area C-1, History	3	3
SECR 115	Intermediate Typing	3			Area B, Religion	3	3
MATH 103	Survey of Math		3		Area D, Lang/Lit/F. Arts	2	3
	Area B, Religion		3		Science Sequence	3	3
	Area D-4, Speech		3		Elective		1
	Area G-3, Rec Skills		1			16	16
	Area D, Lang/Lit/F. Arts		3				
	Elective		1				
			16				16

NOTE: C- is the lowest acceptable grade for a course. The Allied Health Professions Admissions Test (AHPAT) is required.

ACCOUNTING

ACCT 103. College Accounting (G-2) 3 hours

This course covers the fundamental accounting processes dealing with the bookkeeping and accounting functions for the small business, professional offices, merchandising firms and service organizations. This course does not apply toward a bachelor's degree offered by the Department of Business and Office Administration. (Fall)

ACCT 121-122. Principles of Accounting (G-2) 3,3 hours

A course designed to introduce the student to the "Generally Accepted Accounting Principles." The theory of debit and credit, transaction analysis, financial statement preparation, analysis of basic balance sheet accounts, income recognition, and basic management accounting concepts are covered.

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ACCT 211-212. Intermediate Accounting 3,3 hours

Prerequisite: ACCT 121-122.

An advanced course in accounting principles and theory including preparation of financial statements, intensive study and analysis of the classification and evaluation of balance sheet accounts and their related income and expense accounts. (Fall, Spring)

ACCT 321. Cost and Managerial Accounting I 3 hours

Prerequisite: ACCT 122.

A study of cost accounting fundamentals with emphasis on accounting as a managerial tool. Special attention is given to cost-volume-profit relationships, job-order costing, budgeting, standard costing, capital budgeting, cost behavior patterns, transfer pricing, and divisional performance measurement. (Fall)

ACCT 322. Cost and Managerial Accounting II 3 hours

Prerequisites: ACCT 321 and BUAD 313.

An in-depth study of the more 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. The more quantitative aspects of management are covered including decision-making under uncertainty, inventory control, cost behavior and regression analysis, the variance investigation decision, and mix and yield variances. (Spring)

ACCT 415. Advanced Accounting 4 hours

Prerequisite: ACCT 211-212.

A course designed to study the problems concerned with consolidated financial statements, partnerships, business firms in financial difficulty, estates and trusts, foreign exchange, segment reporting, and not-for-profit institutional fund accounting and reporting. (Spring)

ACCT 417. Auditing 4 hours

Prerequisite: ACCT 211-212.

A course designed to study auditing and its related types of public accounting work including generally accepted auditing standards, professional code of ethics of the AICPA, and auditing procedures. (Fall)

ACCT 418, 419. C.P.A. Review Problems 3,3 hours

Prerequisite: Permission of instructor.

A course designed to study accounting theory, auditing, accounting practice, and business law as exemplified by the official accounting pronouncements of the AICPA and FASB. (Fall, Spring)

ACCT 421. Federal Income Taxes I 3 hours

Prerequisite: ACCT 121.

An introductory course designed to provide training in the application of the Federal Internal Revenue Code to the tax problems of individuals. Primary emphasis is on Federal income taxes but social security taxes will also be included. (Fall)

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ACCT 422. Federal Income Taxes II **3 hours**

Prerequisite: ACCT 421.

A course designed to provide training in the application of the Federal Internal Revenue Code to the tax problems facing corporations, partnerships, estates, trusts. An introduction to tax research will also be included. (Spring)

ACCT 443. Accounting Systems I **3 hours**

A study of accounting information systems. Internal control, reporting systems, computer based systems and systems development will be covered. (Fall)

ECONOMICS

ECON 213. Survey of Economics (C-2) **3 hours**

A course designed for the general education student. It provides an understanding of the United States' mixed economy through a study of the market system, the role of money, the government's fiscal policy, and the impact of the foreign sector. This course does not apply on a major in accounting or management. No credit is available if ECON 224 or 225 has been taken. (Fall)

ECON 224, 225. Principles of Economics (C-2) **3,3 hours**

A survey course in the fundamentals of economics; the institutions, forces, and factors affecting production, evaluation, exchange, and distribution of wealth in modern society. (Fall, Spring)

ECON 314. Money and Banking **3 hours**

Prerequisite: ECON 224.

Mediums of exchange, money and credit, banks and their services, the Federal Reserve System, and other financial institutions are considered. (Spring)

BUSINESS ADMINISTRATION

BUAD 128. Personal Finance (F-2) **3 hours**

A course in basic economic concepts and business terminology and practices designed to provide the techniques to manage personal finances. Budgeting, consumerism, insurance, home ownership, and investments are included in the topics covered. (Fall, Spring, Summer)

BUAD 313. Business Statistics **3 hours**

Prerequisites: CPTR 120; MATH 104 or an ACT mathematics score of 22 or above.

Descriptive statistics; probability theory and applications including Bayesian revision; the binomial, hypergeometric, Poisson, exponential, normal, student's t, chi-square, and F distributions; inferential statistics including sampling concepts, confidence intervals, and hypothesis testing; multiple regression and correlation; introductory time series analysis. This is an applied (rather than mathematical) approach to statistics, and emphasis will be placed on statistics as a tool of management for decision-making. (Fall)

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BUAD 314. Quantitative Methods for Business Decisions 3 hours

Prerequisite: BUAD 313.

Linear programming—simplex method, primal/dual interpretation, transportation problems. Decision theory under classical and Bayesian statistics. Game theory, inventory models and control, queuing theory. Program Evaluation and Review Technique (PERT). (Spring)

BUAD 315. Business Finance (W) 3 hours

Prerequisite: ACCT 121-122.

A study of the fundamental principles of financial organization. Emphasis on instruments of finance, policies of capitalization, problems pertaining to working capital, and corporate expansion and reorganization. (Fall)

BUAD 326. Introduction to Marketing 3 hours

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

BUAD 334. Principles of Management 3 hours

A beginning course designed to study business management including an analysis of business policies viewed from the standpoint of the functional characteristics of the management process and current ethics. (Fall)

BUAD 339. Business Law 4 hours

A course designed to study the nature and social functions of law including social control through law and the law of commercial transactions (uniform commercial code) and business organizations. (Spring)

BUAD 344. Human Resource Management 3 hours

An introduction to the organization, training, motivation, and direction of employees with a view to maintaining their productivity and morale at high levels. Among topics covered are selection, training, compensation and financial incentives, work standards, techniques of supervision and leadership. (Spring)

BUAD 353. Management of a Small Business 3 hours

A course on the principles and problems of organizing and operating a small business. Topics covered will include a procedural system for establishing a new business, providing physical facilities, financing, organizing, and the management of the small business. (Fall)

BUAD 355. Organizational Behavior 2 hours

Prerequisite: BUAD 334.

This course examines the nature and consequences of human behavior in work organizations. Primary emphasis is placed on the interaction between employee needs and organizational requirements, and on the role of management in facilitating mutual goal attainment. Topics covered include: individual differences, perception and attitude formation, motivation, job design, group processes, conflict, leadership, decision-making, and change and development processes. (Spring)

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BUAD 358. Legal, Ethical, and Social Environment of Business 3 hours

A study of how business should operate within the legal, ethical and political environment, its relationship to government agencies and control, and how individuals in leadership should relate various social and ethical problems. (Fall)

BUAD 414. Business Policies (W) 3 hours

Prerequisite: BUAD 334.

This course of study is designed to give the student experience in decision-making and problem-solving through the case method. The attention of the student is directed to defining, analyzing, and proposing alternative solutions to business problems from management's viewpoint. (Spring)

BUAD 425. Investment Analysis (W) 3 hours

Prerequisite: ACCT 121.

A practical, as well as a theoretical, approach is taken for the potential investor of institutional or personal funds through the use of problems, readings, and cases. Topics covered will include stocks and bonds in the security market, real estate, and fixed equipment investments. (Spring)

BUAD 431. General Administration of the Long-Term Care Facility 3 hours

A study of management tools and techniques including theories of organization and management, mechanisms for planning, organizing, directing, and controlling. Includes review of licensing requirements, insurance, business law, human relations, public relations. (Summer)

BUAD 432. Technological Aspects of Long-Term Care 3 hours

A detailed study of the technical aspects of long-term care administration including a review of the history and philosophy of facilities, the relationship to other health care facilities in the total health care delivery system, and technically related medical relationships and services. (Summer)

BUAD 434. Financial Management of the Long-Term Care Facility 3 hours

A review of techniques and interpretation of financial information for management decision-making in the long-term care facility. (Summer)

BUAD 435. Human Resource Management and Marketing of the Long-Term Care Facility 3 hours

A study of the organization, training, motivation, and direction of employees with a view to maintaining their productivity and morale at a high level. Selection, compensation, financial incentives, work standards, and leadership are the topics that will be covered. Marketing functions, problems, services, and competitive practices will also be covered. (Summer)

BUAD 488. Seminar in Business Administration 1 hour

This course will include the Eugene Anderson Lecture Series in business. Top men and women in their field will present lectures in insurance, real estate, finance, retailing, production management, etc. Attendance at ten lectures will be required. This course may be repeated for credit. (Spring)

Business and Office Administration

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BUAD 295/495. Directed Study 1-2 hours

Individual research work open only to business majors. Content to be arranged. Approval must be secured from Department Chairman prior to registration. (Fall, Spring)

BUAD 497. Long-Term Care Administration Internship 8 hours

A tailored program of management experience in a selected long-term care facility will include 400 clock hours of on-the-job experience. One-third regular tuition rate. (Fall, Spring, Summer)

(C-2), (F-2), (G-2), (W) See pages 15-18 for explanation of General Education requirements.

OFFICE ADMINISTRATION

SECR 104. Shorthand I (G-2) 4 hours

This course presents the fundamental principles of Gregg Shorthand, using the individual progress method. Reading and writing of shorthand outlines and longhand transcription are emphasized. Five class periods a week. (Fall)

SECR 105. Keyboarding (G-2) 3 hours

This class, which meets five class periods each week, begins with the development of touch typing techniques. Emphasis is then placed on accuracy, speed, and basic theory. Designed for students with little or no previous training in typewriting. Speed objective: 25-40 wpm. (Fall)

SECR 114. Shorthand II (G-2) 4 hours

Prerequisites: SECR 105 or high school equivalent, and SECR 104 with grade of C or above or consent of instructor.

A continuation of individual progress instruction in which students progress at their own rates in building shorthand skill. Transcription on the typewriter is introduced with increased emphasis on speed building. Five class periods a week. (Spring)

SECR 115. Intermediate Typewriting (G-2) 3 hours

Prerequisite: SECR 105 or equivalent.

Three class periods plus additional laboratory time each week. Continuation of SECR 105; improvement of basic skills; business letter production; tabulated reports; manuscripts; special business forms. (Students with two years of high school typewriting may waive this course by examination.) (Fall)

SECR 213. Records Management 3 hours

Basic principles and procedures of control and storage of records. A simulation involving a study of rules for alphabetic filing and projects on five methods. An overview of automated filing systems and criteria by which records are created, stored and transferred. (Fall)

SECR 214. Advanced Typewriting (G-2) 3 hours

Prerequisite: SECR 115 or equivalent.

Three class periods plus additional laboratory time each week. Preparation of final copy from rough drafts; typing of financial statements; complex statistical and tabulated reports, and representative problems from technical and professional offices. (Spring)

SECR 216. Business English 3 hours

Pre- or co-requisite: ENGL 101.

An intensive study of elementary grammar, punctuation, vocabulary, spelling, and word usage as necessary tools for effective written and spoken communication. (Fall)

SECR 218. Business Mathematics and Calculating Machines (G-2) 2 hours

Prerequisite: MATH 099 or ACT score of 12 or above.

The electronic calculator is used to solve common business problems which include: basic arithmetic operations, fractions, percentage, interest, discounts, merchandising, payrolls, depreciation and the use of credit.

SECR 221. Office Transcription 3 hours

Prerequisite: ENGL 101, SECR 216.

Pre- or corequisites: ENGL 102, SECR 214.

Development of skill in producing mailable office transcription. Proficiency in business grammar, punctuation, word usage, and document styles. Emphasis is placed on speed and accuracy in producing mailable copy, using machine transcription. Also, a study of current methods of office reprographics. (Spring)

SECR 223. Concepts of Information Processing 3 hours

Introduces the total concept of word/information processing. Through lectures, films and field trips, the student will learn terminology, practices, procedures, and controls used in modern office environments. This course is designed to acquaint the student with new roles of office workers, new office career opportunities, and electronic office equipment and systems. The student will be introduced to the features of electronic typewriters and calculators. (Spring)

SECR 315. Business Communications (W) 3 hours

Prerequisite: ENGL 101-102.

A study and application of the modern practices in oral and written business communications. Accuracy in grammar, spelling, and punctuation, and the writing of well-knit sentences and clear paragraphs are taught as a means of effective expression in business-letter writing. (Fall, Spring)

SECR 316. Medical Terminology 3 hours

Prerequisite: SECR 214, BIOL 101, or consent of instructor.

A study of medical terms—their pronunciation, spelling, and meaning, and their application to medical secretarial work. Open only to students who are enrolled in a medical emphasis program. (Fall)

Business and Office Administration

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SECR 317. Secretarial Procedures **3 hours**

Prerequisite: SECR 213, 214, 323.

An integration of skills learned in previous secretarial courses, together with emphasis on decision-making ability, judgment, business ethics, and initiative used in the secretarial profession. Lectures/simulations. (Spring)

SECR 323. Word Processing Text-Editing **3 hours**

Prerequisites: SECR 214, 223, CPTR 120.

Introduces the student to the text-editing capabilities of microcomputers. Emphasis is placed on developing word processing skills using popular software, formatting quality documents, and increasing productivity. (Fall)

SECR 324. Advanced Word Processing **3 hours**

Prerequisite: SECR 323.

This course is designed to prepare the student to use microcomputer software in an information processing environment. Training is given in data base management, spreadsheet analysis and word processing. (Spring)

SECR 333. Advanced Medical Terminology and Transcription **3 hours**

Prerequisites: SECR 223 and 316.

For Medical Secretarial majors only. Continued emphasis on increasing medical vocabulary, with skill and knowledge developed in the transcription techniques and procedures of medical dictation. Three class periods per week. (Spring)

SECR 245/345. Computer-Aided Publishing **2 hours**

See TECH 245/345 for course description.

SECR 295/495. Directed Study **1-2 hours**

Open only to majors in Office Administration. Research studies relating to the field of Office Administration are assigned according to the experience and interests of the student. Length of project determines credit.

EDUCATION

EDUC 438. Methods of Teaching Business **2 hours**

Prerequisite: Admission to Teacher Education.

A study of the status, disciplines, and curricular structure of business education, the psychology of skill development and measurement, and lesson development of specific classes. An investigation of instructional materials and resources for the business education classroom. Special areas of instruction will be presented for the endorsement clusters of Basic Business, Accounting, Data Processing and Office Technology. Emphasis will be placed on professional development for this area of teaching. (Spring)

(G-2), (W) See pages 15-18 for explanation of General Education requirements.

YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
CHEM 315	Analytical Chemistry	4		CHEM 485	Chemistry Seminar	1	
CHEM 321	Instrumental Analysis		4		Area B, Religion (U.D.)		3
CPTR 131	Funds. of Programming I	3			Area F, Behav/Fam/Hlth Sci	3	
	Area B, Religion	3			Chemistry Elective	2	
	Area C-1, History	3	3		Electives or Minor	9	12
	Area D-1, Foreign Lang	3	3			15	15
	Area F, Behav/Fam/Hlth Sci		3				
	Elective		3				
		<hr/>				<hr/>	
		16	16				

***PLEASE NOTE:** If the student enters during the fall of an odd numbered year, this schedule applies. If the student enters during the fall of an even numbered year, then either years 2 and 3 or years 3 and 4 should be exchanged.

See pages 12, 13 and 15-18 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Major (B.S.): Forty hours including CHEM 151-152, 311-312, 313-314, 315, 321, 325, 411, 412, 413, 414, 485, and 497 are required. Cognate requirements are: PHYS 211-212, 213-214, MATH 181, 182 and 315, CPTR 131. German or French is highly recommended. This course of study is designed for the professional chemist. Note that Physical Chemistry will be offered one year and Analytical and Instrumental Chemistries the following year. The student should plan accordingly.

TYPICAL SEQUENCE OF COURSES FOR B.S. CHEMISTRY*

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
CHEM 151-152	General Chemistry	4	4	CHEM 311-312	Organic Chemistry	3	3
ENGL 101-102	College Composition	3	3	CHEM 313-314	Organic Chem Lab	1	1
MATH 114	Precalculus	4		MATH 182	Calculus II	3	
MATH 181	Calculus I		4	MATH 315	Diff Equations		3
CPTR 131	Funds. of Programming I	3			Area B, Religion		3
	Area B, Religion		3		Area C-1, History	3	3
	Area G-3, Rec Skills	1			Area D, Lang/Lit/Fine Arts	3	3
	Elective		1		Elective	2	
		<hr/>				<hr/>	
		15	15			15	16

YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
PHYS 211-212	General Physics	3	3	CHEM 411-412	Physical Chemistry	3	3
PHYS 213-214	General Physics Lab	1	1	CHEM 413-414	Physical Chem Lab	1	1
CHEM 315	Analytical Chemistry	4		CHEM 485	Chemistry Seminar	1	
CHEM 321	Instr Analysis		4	CHEM 497	Intro to Research	1-2	
CHEM 325	Organic Qual Anal	2-3			Area B, Religion (U.D.)	3	3
	Area B, Religion		3		Area C-2, Pol Sci/Econ	3	
	Area G-1, Creative Skills				Area D, Lang/Lit/Fine Arts		3
	OR	2			Area F, Behav/Fam/Hlth Sci	3	3
	Area G-3, Recreation Skills				Electives	0-1	2
	Chemistry Electives	3	2			16	15
	Electives	1-0	3				
		16	16				

*PLEASE NOTE: If the student enters during the fall of an odd numbered year, this schedule applies. If the student enters during the fall of an even numbered year, then years 3 and 4 should be exchanged, and General Physics must be taken during the first or second year or a summer before the junior year.

See pages 12, 13 and 15-18 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Minor: Eighteen hours, six of which must be upper division.

CHEM 111-112. Survey of Chemistry (E-2) 3,3 hours

Prerequisite: A course in high school algebra. A minimum Mathematics ACT score of 12 or a minimum grade of "C" in MATH 099 are required.

A survey course designed to familiarize the student with the basic principles of inorganic, organic and biochemistry. Three hours of lecture each week. Does not apply to a major or minor in Chemistry. (Fall, Spring, Summer)

CHEM 113-114. Survey of Chemistry Laboratory (E-2) 1,1 hours

Prerequisite: Previous or concurrent enrollment in CHEM 111-112.

Laboratory material designed to illustrate the material in lectures of CHEM 111-112. Two and one-half hours of laboratory each week. Does not apply to a major or minor in Chemistry. (Fall, Spring)

CHEM 151-152. General Chemistry (E-2) 4,4 hours

Prerequisites: High school chemistry and mathematics through Intermediate Algebra.

An introduction to the fundamental laws and accepted theories along with applications to the various fields of chemistry. Three hours of lecture and three hours of laboratory each week. (Fall, Spring)

CHEM 311-312. Organic Chemistry 3,3 hours

Prerequisite: Successful completion of CHEM 151-152 or its equivalent.

Many of the fundamental functional groups of both aliphatic and aromatic carbon compounds are studied. Attention is also given to spectroscopy, relative reactivities, reaction mechanisms and physical properties of these compounds. There are three hours of lecture each week. (Fall, Spring)

Chemistry

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CHEM 313-314. Organic Chemistry Laboratory **1,1 hours**

Prerequisite: Previous or concurrent enrollment in CHEM 311-312.

Experiments are done to acquaint the student with the basic organic chemistry laboratory techniques; melting points, boiling points, recrystallization, distillation, separations, etc. The exercises also illustrate reactions that are discussed in CHEM 311-312. Four hours of laboratory each week. (Fall, odd years)

CHEM 315. Analytical Chemistry **4 hours**

Prerequisite: CHEM 151-152.

A study of equilibria as it applies to analytical chemistry. Techniques of determinations, sampling, handling of data, and the detailed chemistry involved is studied in terms of quantitative determinations. Three hours of lecture and three hours of laboratory each week. (Fall, odd years)

CHEM 321. Instrumental Analysis **4 hours**

Prerequisite: CHEM 315.

A study of the theories, techniques and instruments involved in spectrometry, chromatography, electrochemistry and radiochemistry. Three lectures and one laboratory session per week. (Spring, even years)

CHEM 323. Biochemistry **4 hours**

Prerequisite: CHEM 311-312.

The materials, mechanisms, and end products of the processes of life under normal and pathological conditions are studied. Four hours of lecture each week. (Spring)

CHEM 325. Organic Qualitative Analysis **2 or 3 hours**

Prerequisite: CHEM 311-312; 313-314.

Application of solubility principles, classification reactions, and the preparation of derivatives for the identification of both pure compounds and mixtures. Two hours of lecture for nine weeks, and four or eight hours of laboratory each week. Offered on sufficient demand. (Fall)

CHEM 411. Physical Chemistry **3 hours**

Prerequisites: CHEM 151-152; CPTR 131 or 218; PHYS 211-212; MATH 315.

A study of gases, kinetic theory, liquids, solids, and thermodynamics. Three hours of lecture each week. Taught alternate years. (Fall, even years)

CHEM 412. Physical Chemistry **3 hours**

Prerequisite: CHEM 411.

A study of electrochemistry and conductivity, reaction kinetics, molecular structure, nuclear chemistry, absorption and colloids. Three hours of lecture each week. Taught alternate years. (Spring, odd years)

CHEM 413, 414. Physical Chemistry Laboratory **1,1 hours**

Prerequisites: CHEM 315, also CHEM 411, 412 must be taken concurrently or previously.

Experiments chosen to illustrate material in CHEM 411, 412. One laboratory period each week. (Fall, Spring)

CHEM 485. Chemistry Seminar (W) **1 hour**

Prerequisite: CHEM 311-312.

Written and oral reports are made on specific topics in the chemistry field. To be taken in the junior or senior year. (Fall)

CHEM 295/495. Directed Study **1-3 hours**

Prerequisite: CHEM 151-152.

Designed for junior and senior students who wish to do private study or for a group of students who wish a special course on topics not taught under the regular class offerings. (Fall, Spring)

CHEM 497. Introduction to Research (W) **1 to 2 hours**

Prerequisite: 20 hours of chemistry or permission of the instructor.

Individual research under the direction of the members of the staff. Problems are assigned according to the experience and interest of the student. Prior to registration, two semesters before graduation, students are urged to contact all chemistry staff members with respect to choice of available problems. Should be taken not later than the first semester of the senior year. (Fall, Spring)

EDUCATION

EDUC 438. Methods of Teaching Chemistry **2 hours**

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials of instruction, planning, testing, and evaluating student performances, the survey and evaluation of textbooks. Four lectures each week of the first half of the second semester during the senior year. (Spring)

Taught at the Orlando Center

CHEM 112. Survey of Chemistry (E-2) **3 hours**

CHEM 114. Survey of Chemistry Lab (E-2) **1 hour**

(E-2), (W) See pages 15-18 for explanation of General Education requirements.

COMPUTER SCIENCE

Chairman: Bradley Hyde

Faculty: Rick Halterman, Merritt MacLafferty

Adjunct Faculty: John Beckett, Judy DeLay

Computer Science deals with the design and programming of electronic digital computers. In today's society, it is rare that the average person goes through a day without using a computer in some way. Computers are used in cars, microwave ovens, VCR's, TV's and even washing machines. On Wall Street and at NASA, huge banks of computers display the current status. Almost everyone who writes now uses a word processor and even grade-school students are being taught by computers.

With the growing use of computers has come a growing shortage of computer professionals. While some companies must hire untrained applicants, most are seeking employees with the training, skill, and knowledge of a graduate in Computer Science. Graduates from a computer science program find jobs in industry, health care, financial institutions, education, and research.

The student should choose his area of interest and select courses from computer science and other fields that will fit well with his intended career. Some job titles are: Programmer, Systems Programmer, Systems Analyst, Team Leader, Data Base Administrator, Data Processing Manager, Software Engineer, Applications Engineer, Training Specialist, and Technical Writer.

CODE OF COMPUTER CONDUCT AT SOUTHERN COLLEGE

1. Users must use only those computer accounts which have been authorized for their use.
2. Users must use their computer accounts only for the purposes for which they were authorized, as arranged with the Computer Service Department.
3. Users should minimize the impact of their work on the work of other users. It is the responsibility of the user to learn efficient means of utilizing the computer.
4. Users must not attempt to subvert the restrictions associated with their computer accounts.
5. Users must not attempt to access information concerning the data or jobs of other users except as provided by techniques arranged for that purpose by the Computer Service Department.
6. Student users shall not exceed default parameters for priority factors except in cases where published policy provides for differences.

PROGRAMS IN COMPUTER SCIENCE

Major (B.A.): Thirty hours consisting of CPTR 131, 132, 217, 219, 280, 317, 318, 319, (324 or 325), 485 and three hours of upper division computer electives. Cognates required: MATH 114, (MATH 215 or BUAD 313), BUAD 334.

Minor: Eighteen hours including: CPTR 131, 132, 318. Of the remaining nine elective hours, three must be upper division.

The minor is an excellent background for those whose profession is outside of data processing, but who will have to use the computer in their job, or work closely with DP personnel. The minor is also appropriate for any student who simply has an interest in computers.

TYPICAL SEQUENCE OF COURSES FOR B.A. COMPUTER SCIENCE

YEAR 1		Semester 1st 2nd		YEAR 2		Semester 1st 2nd	
ENGL 101-102	College Composition	3	3	CPTR 217	COBOL Prog Lang		3
CPTR 131-132	Fund of Prog I, II	3	3	CPTR 280	Discrete Structures		3
CPTR 219	Sym Assembler Lang		3	CPTR 317	Intro to File Proc		3
MATH 114	Precalculus		3		Area D-1, Foreign Lang	3	3
MATH 104	Int Algebra			MATH 215	Statistics		3
	OR		3		Area B, Religion		3
	Elective				Area F, Behav/Fam/Hlth Sci	3	2
	Area C-1, History		3		Area G-3, Rec Skills		1
	Area B, Religion		3		Minor or Elective		3
	Area F, Behav/Fam/Hlth Sci		3				
			<hr/>				<hr/>
			15				15
YEAR 3		Semester 1st 2nd		YEAR 4		Semester 1st 2nd	
CPTR 324	Systems Analysis			CPTR 485	Comp Sci Seminar		1
	OR		2		Area B, Religion (U.D.)	3	
CPTR 325	Systems Design				Area C-1, History		3
BUAD 334	Prin of Management		3		Area D, Lit/Fine Arts	3	
	Area B, Religion		3		Area E, Nat Sci	3	3
	Area C-2, Pol Sci/Econ		3		Comp Sci Elective		3
CPTR 318	Data Structures		3		Minor or Elective	6	6
CPTR 319	Data Base Mgmt Sys		3			<hr/>	<hr/>
	Area G-1, Creative Skills					15	16
	OR		1				
	Area G-3, Recreation Skills		1				
	Minor or Elective		6				
			<hr/>				<hr/>
			16				16

See pages 9-11 and 14-16 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Major (B.S.): Forty hours consisting of CPTR 131, 132, 217, 219, 280, 317, 318, 319, 324 or 325, 413, 485, and ten hours of computer electives, four of which must be upper division. Cognates required: MATH 114,

(MATH 215 or BUAD 313), BUAD 334. Only three hours of CPTR 105, 106, 107, and 126 may apply to a major in computer science.

Those electing a B.S. in computer science may desire to work in a specific area of application of computer science, e.g., business, psychology, mathematics, or physics. Such students should include appropriate classes in these areas. A minor or double major should be considered.

Students planning to do graduate work in computer science should definitely take the B.S. degree and include calculus and differential equations.

TYPICAL SEQUENCE OF COURSES FOR B.S. COMPUTER SCIENCE

YEAR 1			Semester		YEAR 2			Semester	
			1st	2nd				1st	2nd
CPTR 131-132	Fund of Prog I, II		3	3	CPTR 217	COBOL Prog Lang		3	
ENGL 101-102	College Composition		3	3	CPTR 280	Discrete Structures		3	
CPTR 219	Sym Assembler Language			3	CPTR 317	Intro to File Proc			3
MATH 104	Intermediate Algebra				CPTR 318	Data Structures		3	
	OR		3		CPTR 319	Data Base Mgmt Sys			3
MATH	Elective				MATH 215	Statistics			3
MATH 114	Precalculus			3		Area B, Religion		3	
	Area B, Religion			3		Area E, Natural Sci.		3	3
	Area C-1, History			3		Area F, Behav/Fam/Hlth Sci			2
	Area F, Behav/Fam/Hlth Sci			3		Area G-3, Rec Skills			1
			15	15				15	15
YEAR 3			Semester		YEAR 4			Semester	
			1st	2nd				1st	2nd
CPTR 324	Systems Analysis				CPTR 413	Software Dev Practicum		3	
	OR			2	CPTR 485	Comp Sci Seminar			1
CPTR 325	Systems Design					Area B, Religion (U.D.)		3	
BUAD 334	Prin of Mgmt			3		Area C-1, History			3
	Area B, Religion			3		Area D, Lang/Lit/Fine Art		3	
	Area C-2, Pol Sci/Econ			3		Elective, Computer Sci			3
	Area D-1, Foreign Language			3		Elective		7	9
	Area G-1, Creative							16	16
	OR		1	1					
	Area G-3, Recreation Skills								
	Elective, Computer Sci			3					
	Elective			3					
			16	16					

See pages 12, 13 and 15-18 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Major in Computer Information Systems: Sixty-six hours consisting of CPTR 106, 126, 131-132, 217, 317, 318, 319, 324, 325, 326, 413, 485; ACCT 121, 122, 321; ECON 224, 225; BUAD 313, 314, 334, 339, and eight hours of electives from business or computer. Cognates required: MATH 181, SPCH 135, and a psychology course.

TYPICAL SEQUENCE OF COURSES FOR B.B.A. COMPUTER INFORMATION SYSTEMS

YEAR 1	Semester 1st 2nd	YEAR 2	Semester 1st 2nd
ACCT 121-122	Prin of Accounting 3 3	ECON 224-225	Prin of Economics 3 3
CPTR 131-132	Fund of Programming 3 3	CPTR 217	COBOL Programming 3
ENGL 101-102	College Composition 3 3	CPTR 317	Intro to File Processing 3
CPTR 106	Intro to Spreadsheets 1	MATH 114	Precalculus 3
CPTR 126	Spreadsheet Applications 2		Area B, Religion 3
MATH 104	Inter Algebra 3		Area C-1, History 3 3
SPCH 135	Intro to Pub Speaking 3		Area D-3, Fine Arts 3
	Area B-1, Religion 3		Area E, Natural Science 3
	Area G-1 or G-3, Skills 1 1		Area G-3, Rec Skills 1
	16 16		15 16

YEAR 3	Semester 1st 2nd	YEAR 4	Semester 1st 2nd
ACCT 321	Cost & Managerial Acct I 3	BUAD 315	Business Finance (Rec.) 3
BUAD 313	Business Statistics 3	BUAD 326	Intro to Marketing (Rec.) 3
BUAD 314	Quant Methods-Bus Decisions 3	BUAD 339	Business Law 3
BUAD 334	Principles of Management 3	CPTR 326	Systems Management 2
CPTR 318	Data Structures 3	CPTR 325	Systems Design 2
CPTR 319	Data Base Mgmt Systems 3		Area B, Religion (U.D.) 3
CPTR 324	Systems Analysis 2		Area E, Natural Science 3
MATH 181	Calculus I 4		Area F, Psychology 3
	Area B, Religion 3		Electives in Major 3
	Area D-2, Literature 3		General Elective 4
	Area F-2, Family Sci OR 2		15 14
	Area F-3, Health Sci 2		
	16 16		

SUMMER

CPTR 413	Software Dev Practicum	3
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(Recommended)

See pages 12, 13 and 15-18 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Major (A.S.): Twenty-four hours in computer science consisting of: CPTR 105, 106, 107, 131, 132, 217, 219, 317, 318, 319. Cognates required: ACCT 121, 122, 321; BUAD 334.

TYPICAL SEQUENCE OF COURSES FOR A.S. COMPUTER SCIENCE

YEAR 1		Semester 1st 2nd		YEAR 2		Semester 1st 2nd	
CPTR 131-132	Fund of Program I, II	3	3	CPTR 217	COBOL Programming Lang	3	
ACCT 121-122	Prin of Accounting	3	3	CPTR 317	Intro to File Processing		3
CPTR 105	Intro to Word Processing	1		CPTR 318	Data Structures	3	
CPTR 106	Intro to Spreadsheets	1		CPTR 319	Data Base Mgmt Systems		3
CPTR 107	Intro to Data Base Applic	1		ACCT 321	Cost Accounting I	3	
CPTR 219	Symbolic Assembler Lang		3	BUAD 334	Prin of Management		3
MATH 104	Intermediate Algebra				Area B, Religion		3
	OR				Area C, Hist/Pol Sci/Econ	3	
MATH	Elective				Area D, Lang/Lit/Fine Arts		2
MATH 114	Precalculus		3		Area E, Natural Science		3
ENGL 101	College Composition	3			Area F, Behav/Fam/Hlth Sci		2
	Area B, Religion		3		Elective		1
	Area G-3, Recreation Skills	1					16
	Elective		1				16
		16	16				

See pages 12, 13 and 15-18 for general degree and general education requirements. Note especially requirements for make-up of admissions deficiencies.

CPTR 105. Introduction to Word Processing (G-2) 1 hour

Prerequisite: A typing course or permission of instructor.

Word processing on a microcomputer including techniques for creating form letters, and using an electronic dictionary to check spelling. (Spring)

CPTR 106. Introduction to Spreadsheets (G-2) 1 hour

Prerequisite: MATH 103 or 104 or Math ACT of 22.

A course using microcomputer spreadsheet programs. The most commonly used functions will be described with simple lab problems.

CPTR 107. Introduction to Data Base Applications (G-2) 1 hour

Prerequisite: CPTR 106.

A course using microcomputers as electronic filing cabinets. Information retrieval, report generation, adding, deleting, and updating information. (Spring)

CPTR 120. Introduction to Computer-Based Systems (G-2) 3 hours

An overview of computer information systems. This survey course introduces computer hardware, software, procedures, systems, and human resources and explores their integration and application in business and other segments of society. The fundamentals of computer problem solving and programming in a higher-level programming language are discussed and applied. This course does not apply on a major in Computer Science. (Fall, Spring)

CPTR 126. Spreadsheet Applications (G-2) 2 hours

Prerequisite: CPTR 106.

The use of spreadsheet software on a microcomputer as an aid to financial planning and management. (Spring)

CPTR 131. Fundamentals of Programming I (G-2) 3 hours

Prerequisite: MATH 104 or MATH ACT of 22 or permission of instructor.
Control structures, data types, data representation, compiling, debugging, modularity, and standard programming algorithms are introduced, using a structured language. (Fall)

CPTR 132. Fundamentals of Programming II (G-2) 3 hours

Prerequisite: CPTR 131; Pre- or corequisite: SECR 105 or typing speed of 35 wpm.
An introduction to software technology including elementary data structures for the development of reliable, modifiable programs. (Spring)

CPTR 217. COBOL Programming Language (G-2) 3 hours

Prerequisite: CPTR 131.
Semantics and syntax of COBOL. Emphasis is placed on business problems using the COBOL Language. (Fall)

CPTR 218. FORTRAN Programming Language (G-2) 3 hours

Prerequisite: MATH 114.
Syntax and semantics of arithmetic expressions and statements. Precedence of arithmetic operations and relational operators. Global properties of algorithmic languages including scope declarations, storage allocation, grouping of statements, and subroutines. This course does not apply on a major.

CPTR 219. Symbolic Assembler Language 3 hours

Prerequisite: CPTR 131.
Computer structure, machine language, instruction execution, addressing techniques, and digital representation of data. Computer systems organization, symbolic coding and assembly systems and program segmentation and linkage. Systems and utility programs and programming techniques. Several computer projects to illustrate basic machine structure and programming techniques. (Spring)

CPTR 280. Discrete Structures 3 hours

Prerequisite: Math ACT 22 or MATH 104.
Recommended: MATH 114 and familiarity with a programming language.
An examination of many of the mathematical concepts of particular use to computer scientists. The topics include set theory, relations, graph theory, combinatorics, Boolean algebra, digital logic and circuit design, proof techniques, and finite state automata. (Fall)

CPTR 317. Introduction to File Processing 3 hours

Prerequisite: CPTR 217.
Tape and disc operations. Includes coverage of sequential and random access files and processing techniques. Development of programs and systems of programs for batch and interactive environments. (Spring)

CPTR 318. Data Structures 3 hours

Prerequisites: CPTR 132, MATH 114.
Stacks, recursion, queues, lists, trees, graphs, sorting and searching. (Fall)

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CPTR 319. Data Base Management Systems 3 hours

Prerequisites: CPTR 318, 217. Recommended CPTR 317.

Introduction to relational, hierarchical, and network approaches. Design, implementation, and management issues. (Spring)

CPTR 324. Systems Analysis 2 hours

Prerequisite: CPTR 317 or 319.

System development life cycle, system documentation through the use of both classical and structured tools and techniques for describing data flows, process flows, input and output necessary for defining logical system requirements. Structured techniques for dealing with complexity in the development of computer based information systems.

CPTR 325. Systems Design 2 hours

Prerequisite: CPTR 317 or 319.

Logical and physical system design. Hardware/Software selection and evaluation. Logical Data Base Design. Theories relating to module design, module coupling, and module strength. Techniques for reducing a system's complexity.

CPTR 326. Systems Management 2 hours

Prerequisite: CPTR 317 or 319.

This course presents management principles unique to the data processing environment. Emphasis is placed on site preparation, security, software version control, and user services.

CPTR 360. Computer Hardware and System Software Concepts 3 hours

Prerequisites: CPTR 219, 132.

Computer systems components, main storage organization, instruction sets and data representation, program translation concepts, operating system concepts, secondary storage concepts, multi-processor systems, microprogramming, and array processors. (Fall, odd years)

CPTR 376. Automation and Robotics 3 hours

See TECH 376 for course description.

CPTR 405. Organization of Programming Languages 3 hours

Prerequisites: CPTR 217, 219.

Develops understanding of the organization of programming languages and their run time behavior. A comparative study, introducing the student to a variety of languages. (Spring)

CPTR 413. Software Development Practicum 3 hours

Prerequisites: CPTR 324 or 325 or permission of instructor.

A minimum of 120 hours of programming experience. The Computer Science Department may prearrange some practicums with commercial data processing departments. These positions must be applied for six weeks prior to registration. Students, however, are encouraged to be responsible for setting up their own practicums. This must be done within the guidelines of the department (see instructor), and arrangements should be completed six weeks prior to the start of the practicum. (Summer, Fall)

CPTR 485. Computer Science Seminar (W) 1 hour

Prerequisite: CPTR 318 and 3 hours of CPTR credit numbered 319 or above.
Written and oral reports are made on specific topics treated in current computer science literature. (Spring)

CPTR 490. Topics in Computer Science 1-3 hours

Prerequisite: Permission of Computer Science staff.
Topics selected from areas of computer science not covered in other courses. May be repeated with permission to a maximum of six hours.

CPTR 295/495. Directed Study 1-3 hours

Prerequisite: Consent of instructor and department chair.
Individual or group work adjusted to meet particular needs of computer science students. May be repeated for credit up to six hours.

(G-2) See pages 15-18 for explanation of General Education requirements.

— CONSUMER AND FAMILY SCIENCES —

Chairman: Diane Fletcher

Adjunct Faculty: Roy Dingle, Earl Evans, Judie Port

Advisory Council: Patricia Brogdon, John L. Deppen, Cassandra Garner, Rene Mote, Katharine Powell, Patricia Rushing, Darlene Schmitz-Montgomery, Margaret Smith, Mary Tanner

Note: The Consumer and Family Sciences Department is accepting no more majors after the 1988-89 school year.

Consumer and Family Sciences programs are designed to prepare men and women for careers dealing with home and family life, food and nutrition, clothing and textiles, and teaching of non-vocational Home Economics in secondary and elementary schools.

Flexibility of programs allows a choice of concentration to fit the preparation needed for the chosen Consumer and Family Sciences profession.

Emphasis is placed upon the Seventh-day Adventist philosophy for home and family living and preparation for professional, church, and community leadership.

All Consumer and Family Sciences programs are planned with a member of the Consumer and Family Sciences faculty. Approval is then considered on an individual basis and is granted on the following conditions:

1. Compliance with graduation requirements as explained elsewhere in the CATALOG.
2. Fulfillment of the professional and individual needs of the student.
3. Embodiment of academic balance and continuity.

PROGRAMS IN CONSUMER AND FAMILY SCIENCES

Consumer and Family Sciences can complement other disciplines. The following academic combinations are possible: Consumer and Family Sciences and Business for a career as a consumer scientist in business; Consumer and Family Sciences and Social Work for a career in gerontology; Consumer and Family Sciences and Education for a teaching career; Consumer and Family Sciences and the physical sciences for pre-professional preparation for medical school and paramedical careers. Employment opportunities abound for those who pursue advanced degrees in one of the areas of Consumer and Family Sciences.

Major (B.S.)—Consumer and Family Sciences: Forty-one hours including FDNT 125, 126, 127, 317, 325; CFSC 146, 147, 148; CLTX 164, 165, 166; CFSC 201, 202, 349, 415, 485; and six hours of upper division elective credit. Cognate requirements: PSYC 124; HLED 203.

Consumer and Family Sciences majors and candidates for Seventh-day Adventist secondary certification are encouraged to attend two approved professional meetings each semester.

TYPICAL SEQUENCE OF COURSES FOR B.S. CONSUMER AND FAMILY SCIENCES

YEAR 1		Semester 1st 2nd	YEAR 2		Semester 1st 2nd
ENGL 101-102	College Composition	3 3	CFSC 146	Consumer Education	2
FDNT 126	Foods	2	CFSC 147	Family Resource Mgt.	3
FDNT 127	Food Preparation	1	CLTX 164	Textiles	3
CLTX 165	Basic Clothing	2	CLTX 316	Tailoring (or HMEC elec)	3
CFSC 148	Orientation to Cons & Fam Sci	1	HLED 203	Safety Education	2
CLTX 166	Inter Clothing	2	FDNT 125	Nutrition	3
	Minor	3	PSYC 124	Intro to Psych	3
RELT	Area B-2	3		Minor	3
	Area E, Natural Sci	3	RELT	Area B-2	3
	Area A-2, Math	3		Cons & Fam Sci Elect	2
	Area C-1, History	3		Area D, Lang/Lit/Fine Art	3
		<hr style="width: 50%; margin: 0 auto;"/>		Area G-3, Rec Skills	1
		15 14			<hr style="width: 50%; margin: 0 auto;"/>
					15 16
YEAR 3		Semester 1st 2nd	YEAR 4		Semester 1st 2nd
CFSC 201-202	Parenting	2 2	CFSC 415	Practicum in Cons & Fam Sci	2
FDNT 317	Meal Management	3		Cons and Fam Sci Elective	2 3
FDNT 325	Demonstration Tech	2		Minor U.D.	3 3
CFSC 485	Cons & Fam Sci Seminar (W)	2	RELB	Area B-1, Biblical Stud (U.D.)	3
	Minor	3		Area C-2, Pol Sci/Econ	3
	Minor U.D.	3		Area D, Lang/Lit/Fine Art	3
CFSC 349	Interior Design	3		Area E, Natural Sci	3
	Elective	2		Elective	3 2
RELB	Area B-1, Biblical Studies	3			<hr style="width: 50%; margin: 0 auto;"/>
	Area C-1, History	3			14 16
	Area D, Lang/Lit/Fine Art	3			
		<hr style="width: 50%; margin: 0 auto;"/>			
		16 15			

See pages 12, 13 and 15-18 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Minor—Consumer and Family Sciences: Eighteen hours, six hours of which must be upper division.

Minor—Foods and Food Service: Eighteen hours, six hours of which must be upper division.

Minor—Clothing and Textiles: Eighteen hours, six hours of which must be upper division.

Teaching Endorsement Requirements: See Education and Psychology Department.

The bachelor of science degree in food service administration provides the student with advanced skills in institutional food service,

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supervision and administration. A minor in Business Administration is required for this degree.

Major (B.S.)—Food Service Administration : Forty-eight hours including FDNT 111, 112, 113, 114, 125, 126, 127, 129, 139, 219, 220, 317, 325, 385; BUAD 355; FDNT 415; CFSC 495; FDNT 497. Cognate requirements: CPTR 120, BIOL 125, PSYC 124 or 128. 150 hours work experience in food service and/or bakery and a minor in Business Administration is required.

Minor—Business Administration: Eighteen hours including ACCT 121-122, ECON 213; BUAD 334, 344 and three additional hours in Accounting, Economics or Business Administration. Recommended: BUAD 353.

TYPICAL SEQUENCE OF COURSES FOR B.S. FOOD SERVICE ADMINISTRATION

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
FDNT 111-112	Prin Quan Fd Serv I, II	2	2	FDNT 219-220	Adv Fd Serv Prod	3	3
FDNT 113-114	Quan Fd Serv Prod Lab	3	3	PSYC 124	Intro Psyc		
FDNT 129	Inst Bkg Techniques	4			OR	3	
FDNT 139	Adv Inst Bkg Tech		4	PSYC 128	Dev Psyc		
ENGL 101	College Comp I	3		FDNT 125	Nutrition	3	
	Area B-1, Religion		3	FDNT 126	Foods	2	
	Area G-3, Rec Skills	1		FDNT 127	Food Preparation	1	
	Elective	3	4	FDNT 317	Meal Management		3
		16	16		Area A-2, Mathematics		0-3
					Area B-2, Religion	3	
					Area D, Lang/Lit/Fine Art		3
					Area E, Natural Sci		3
					Elective		3-0
						15	15
YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
ACCT 121-122	Prin of Acct I, II	3	3	CPTR 120	Intro to Comp-Bsd Sys	3	
ECON 213	Surv of Econ	3		CFSC 495	DS (Adv Fd Prep/Sci)		3
FDNT 325	Demonst Techniques		2	BUAD 355	Organiz Behavior		2
FDNT 385	Foods & Nutr Seminar (W)	1		BUAD 353	Manag of Sm Bus		
BUAD 334	Prin of Management	3			OR	3	
BUAD 344	Human Resource Mgt.		3		Minor Elective		
FDNT 415	Practicum in Sp Funct	3			Area B, Rel (UD)		3
ENGL 102	College Comp II	3			Area C-1, History (UD)	3	3
BIOL 125	Microbiology		4		Area D, Lang/Lit/Fine Art	3	3
	Area B, Rel (UD)		3		Elective		3
		16	15			15	14
SUMMER OF 3RD YEAR							
FDNT 497	Internship in Food Serv Admin		4				

See pages 12, 13 and 15-18 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Major (A.S.)—Pre-Dietetics: Thirty-nine hours including MATH 104, FDNT 125, 126, 127, 317, ACCT 103, ECON 213, BIOL 101-102, 125, CHEM 111-112, 113-114, PSYC 124, PEAC 125.

The associate of science degree in pre-dietetics prepares the student for admission to the Coordinated Undergraduate Program (CUP) in Dietetics at Loma Linda University or Andrews University. Admission to any professional school is dependent on meeting the GPA and prerequisite requirements of the individual school. Students desirous of admission to other Coordinated Undergraduate Programs (CUP) in dietetics should check the bulletin of that school to ascertain the requirements.

Students applying to Andrews University should take another Area G-3, Rec Skills course, CPTR 120 and CFSC 148.

Students applying to Loma Linda University should take another Religion course, six additional hours of Humanities—Language/Literature / Fine Arts—which must include Speech, and SOCI 125.

TYPICAL SEQUENCE OF COURSES FOR A.S. PRE-DIETETICS (Allied Health Professions)

ANDREWS UNIVERSITY REQUIREMENTS

YEAR 1		Semester 1st 2nd	YEAR 2		Semester 1st 2nd
ENGL 101-102	College Composition	3 3	CHEM 111-112	Survey of Chemistry	3 3
BIOL 101-102	Anatomy & Physiology	3 3	CHEM 113-114	Survey of Chem Lab	1 1
FDNT 125	Nutrition	3	CFSC 148	Orientation to Home Econ	1
FDNT 126	Foods	2	ACCT 103	College Accounting	3
FDNT 127	Food Prep	1	FDNT 317	Meal Management	3
ECON 213	Survey of Economics	3	BIOL 125	Basic Microbiology	4
PSYC 124	Intro to Psychology	3	MATH 104	Intermediate Algebra	3
PEAC 125	Conditioning	1	CPTR 120	Intro to Computer Based Sys	3
	Area B, Religion	3 3		Area D-4, Speech	3
	Area C-1, History	3		Area D, Lit/Fine Arts	3
		18 16		Area G-3, Rec Skills	1
					17 15

NOTE: Minimum grades of C+ in Foods courses and C- in other courses must be earned. The Allied Health Professions Admissions Test (AHPAT) is required.

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LOMA LINDA UNIVERSITY REQUIREMENTS

	YEAR 1	Semester			YEAR 2	Semester	
		1st	2nd			1st	2nd
ENGL 101-102	College Comp	3	3	CHEM 111-112	Survey of Chemistry	3	3
BIOL 101-102	Anat & Physiology	3	3	CHEM 113-114	Surv of Chem Lab	1	1
FDNT 125	Nutrition	3		ACCT 103	College Accounting	3	
FDNT 126	Foods	2		FDNT 317	Meal Management		3
FDNT 127	Food Preparation	1		BIOL 125	Basic Microbiology		4
PEAC 125	Conditioning		1	MATH 104	Intermediate Algebra		3
ECON 213	Survey of Economics	3		SOCI 125	Intro to Sociology		3
PSYC 124	Intro to Psychology		3		Area B, Religion (U.D.)		3
	Area B, Religion	3	3		Area D, Lang/Lit/F. Art	3	3
	Area C-1, History		3		Area D-4, Speech	3	
		18	16			19	17

NOTE: C- is the lowest acceptable grade for a course. The Allied Health Professions Test (AHPAT) is required.

The purpose of the two-year curriculum is to prepare the student for a successful family experience as well as for service to his community. All specified courses will apply toward a Bachelor's degree in Consumer and Family Sciences.

Major (A.S.)—Consumer and Family Sciences: Twenty-four hours including courses FDNT 125, 126, 127, 317; CFSC 146, 147, 148, 201; CLTX 165, plus electives to make a total of 24 hours in Consumer and Family Sciences; HLED 203; general electives to make a total of 64 semester hours.

Consumer and Family Sciences majors are encouraged to attend two approved professional meetings each semester.

TYPICAL SEQUENCE OF COURSES FOR A.S. CONSUMER AND FAMILY SCIENCES

	YEAR 1	Semester			YEAR 2	Semester	
		1st	2nd			1st	2nd
CFSC 148	Orientation to Cons & Fam Sci	1		FDNT 125	Nutrition		3
CLTX 165	Basic Clothing	2		CFSC 147	Family Resource Mgt.		3
FDNT 126	Foods	2		CFSC 146	Consumer Education		2
FDNT 127	Food Preparation	1		CFSC 201	Parenting I		2
ENGL 101	College Composition	3		FDNT 317	Meal Management		3
	Area A-2, Mathematics		0-3	HLED 203	Safety Education		2
	Area B, Religion		3		Area B, Religion		3
	Area C-1, History		3		Area D, Lang/Lit/Fine Art		3
	Area G-3, Recreat Skill		1		Area E, Natural Science		3
	Cons & Fam Sci Elective		2		Cons & Fam Sci Elective		3
	Elective		3		Elective		5
		16	16			16	16

See pages 12, 13 and 15-18 for general degree and general education requirements. Note especially requirements for the make-up of admissions deficiencies.

The two-year associate of technology program is designed to provide the student with advanced skills in institutional food service production operations including management of special functions. All specified courses will apply toward a bachelor's degree in Food Service Administration.

Major (A.T.)—Food Service: Thirty-one hours including FDNT 111, 112, 113, 114, 125, 126, 127, 129, 139, 219, 220, 317. Cognate requirements: CFSC 146 or BUAD 128; SPCH 136; PSYC 124 or 128. General education requirements include: ENGL 101, MATH 103, and six hours B-1 or B-2, and electives for a total of 64 semester hours. 250 hours work experience in the food service and bakery are required.

TYPICAL SEQUENCE OF COURSES FOR A.T. FOOD SERVICE

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
FDNT 111-112	Prn/Quan Food Ser I, II	2	2	FDNT 219, 220	Adv Food Serv Prod	3	3
FDNT 113-114	Quan Food Serv Lab I, II	3	3	FDNT 126	Foods	2	
FDNT 129	Baking Techniques	4		FDNT 127	Food Preparation	1	
FDNT 139	Adv Inst Baking		4	FDNT 317	Meal Management		3
ENGL 101	College Comp	3		SPCH 136	Interpersonal Commun		2
CFSC 146	Consumer Educ			FDNT 125	Nutrition	3	
	OR		2-3	PSYC 124	Introduction to Psyc		
BUAD 128	Personal Finance				OR		3
	Area B, Religion		3	PSYC 128	Developmental Psyc		
	Elective	4	1-2		Area A-2, Mathematics		0-3
		17	17		Area B, Religion		3
					Elective	1	8-5
						16	16

See pages 12, 13 and 15-18 for general degree and general education requirements. Note especially the requirements for the make-up of admissions deficiencies.

The purpose of the one-year certificate program is to provide the student with the basic production skills necessary for institutional food service. All specified courses will apply toward an associate of technology degree in food service.

Certificate Program in Food Service Production: FDNT 111, 112, 113, 114, 127, 129, CFSC 146 or BUAD 128; SPCH 136; MATH 099; B-1 or B-2 (three hours), and electives to complete a total of 32 semester hours. Work experience in the food service is required.

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TYPICAL SEQUENCE OF COURSES FOR CERTIFICATE — FOOD SERVICE

YEAR 1		Semester	
		1st	2nd
FDNT 111-112	Prn/Quan Food Ser I, II	2	2
FDNT 113-114	Quan Food Serv Lab I, II	3	3
FDNT 129	Institutional Baking Tech	4	
FDNT 127	Food Preparation	1	
MATH099	Basic Math (if needed)		0
CFSC 146	Consumer Education		
	OR	2-3	
BUAD 128	Personal Finance		
SPCH 136	Interpersonal Communic		2
	Area B, Religion	3	
	Area G-3, Recreat Skills	1	
	Elective	2	7-6
		16	16

CLOTHING AND TEXTILES

CLTX 164. Textiles (G-2)

3 hours

A study of basic fibers and fabrics including properties, construction, selection, uses, and care. Two lectures and three hours of laboratory each week. (Fall, even years)

CLTX 165. Basic Clothing (G-2)

2 hours

Basic principles of clothing construction as applied to individual garments. Three hours combination lecture/laboratory each week. One lecture and three hours laboratory each week. Two hours of additional sewing experience required each week. (Fall)

CLTX 166. Intermediate Clothing (G-2)

2 hours

Prerequisite: CLTX 165 or approval of instructor.

Principles of wardrobe planning, selection, and care for the individual. Emphasis is given to the relationship of the art principles to clothing. One lecture and three hours of laboratory each week. Two hours of additional sewing experience required each week. (Spring)

CLTX 313. Clothing and Human Behavior (F-2), (W)

2 hours

Clothing as it relates to self-expression and to the individual's adjustment to the physical and social environment. The Seventh-day Adventist philosophy of dress is studied. (Spring, odd years)

CLTX 315. Pattern Design

3 hours

Prerequisite: CLTX 165 or approval of instructor.

Clothing design and practice in creating designs through flat pattern and draping techniques. Two three-hour combined lecture/laboratory periods each week. (Spring, even years)

CLTX 316. Tailoring for Men and Women (G-2) 3 hours

Prerequisite: CLTX 165 or approval of instructor.

Evaluation and use of various tailoring methods as applied in selection, fitting and construction of tailored garments. Two three-hour combined lecture/laboratory periods each week. (Fall, odd years)

CLTX 345. Upholstery (G-2) 3 hours

Laboratory experience in simple upholstering. Two three-hour combined lecture/laboratory periods each week. There will be a fee for supplies. (Spring, even years)

CLTX 366. Advanced Clothing 2 hours

Prerequisite: CLTX 165, 166 or approval of instructor.

Developing expert sewing techniques, time-saving shortcuts, and use of distinctive details to create designer touches on individual garments. One three-hour combined lecture/laboratory period each week. Three hours of additional sewing required each week. (Fall)

FOODS AND NUTRITION

FDNT 111-112. Principles of Quantity Food Service I, II 2,2 hours

Classroom instruction in physical and chemical principles of institutional food preparation including the principles of sanitation and safety. (Fall, Spring)

FDNT 113-114. Quantity Food Service Production Laboratory 3,3 hours

Prerequisite or corequisite: FDNT 111-112.

Experience in food service production operations to illustrate and apply the principles presented in lectures of FDNT 111-112. Two five-hour laboratory periods each week. (Fall, Spring)

FDNT 125. Nutrition (F-3) 3 hours

An introduction to the basic principles of human nutrition. Includes study of the nutrients and the requirements for different age groups and normal physiological conditions. Attention will be given to religious and sociological influences, taking particular note of the counsel of E. G. White. (Fall)

FDNT 126. Foods (G-2) 2 hours

Basic principles of food science including food composition, food selection, and physical and chemical principles of food preparation. Two hours of lecture each week. Home economics majors must take concurrently with FDNT 127. (Fall)

FDNT 127. Food Preparation (G-2) 1 hour

Principles of quality food preparation. Efforts will be made to meet the specific needs and interests of the group. One three-hour discussion and laboratory per week. Home economics majors must take concurrently with FDNT 126. (Fall)

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FDNT 129. Institutional Baking Techniques **4 hours**

Lecture and experience in principles of commercial institutional bakery production and operation, including purchasing, equipment layout, maintenance, and sanitation. One hour of lecture and two five-hour laboratory periods each week. (Fall)

FDNT 139. Advanced Institutional Baking Techniques **4 hours**

Prerequisite: FDNT 129

Lecture and laboratory experience in advanced principles and techniques of commercial and institutional bakery production and operation. One hour lecture and two five-hour laboratory periods each week. (Spring)

FDNT 151. Creative Cuisines (G-1) **1 hour**

Laboratory course in gourmet food preparation. Emphasis will be on practical cookery for today's lifestyle. The course will include: international cuisines; microwave cooking; baking; preparation of convenience foods; and vegetarian entrees. This course may, with department approval, be substituted for FDNT 127. (Spring)

FDNT 219-220. Advanced Food Service Production **3,3 hours**

Prerequisites: FDNT 111-112, 113-114, 139.

Lecture and experience in recipe development, menu planning, and management of banquets and special functions. Two lectures and three hours of laboratory each week. (Fall, Spring)

FDNT 317. Meal Management (G-2) **3 hours**

Prerequisites: FDNT 125, 126, 127, or approval of instructor.

Experience in planning, costing, and serving meals to family-sized groups; problems in consumer economics and art of home food service. Two lectures and three hours of laboratory each week. (Spring)

FDNT 325. Demonstration Techniques **2 hours**

Prerequisites: FDNT 125, 126, 127, or approval of instructor.

Purposes, standards, and techniques of giving demonstrations with application to education and business settings. There will be a fee for supplies. (Spring, even years)

FDNT 385. Foods and Nutrition Seminar (W) **1 hour**

Studies in a variety of current topics relating to foods and nutrition. Topics, announced in advance, will be chosen to meet student need and interest. (Fall, odd years)

FDNT 415. Practicum in Special Functions **3 hours**

Prerequisites: FDNT 139, 219-220, 317, 385.

Hands-on experience in all phases of catering for banquets and a variety of special functions. 140 clock hours of laboratory experience required. (Fall)

FDNT 497. Internship in Food Service Administration **4 hours**

Prerequisites: FDNT 139, 219-220, 317, 325, 385, 415.

A tailored program in a selected food service facility will include 400 clock hours of on-the-job experience in production, supervision, and administration. One-third regular tuition rate. (Summer)

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LIFE MANAGEMENT

CFSC 146. Consumer Education (F-2) 2 hours

A basic course in consumer education from the standpoint of purchasing and money management as related to the home and its personal needs. (Spring, odd years)

CFSC 147. Family Resource Management (F-2) 3 hours

A study of the achievement of family goals through management of personal and family resources including time, money, energy, and health. (Fall, even years)

CFSC 148. Orientation to Consumer and Family Sciences 1 hour

Orientation in the areas of Consumer and Family Sciences and a study of the field in terms of history, philosophy, and professional opportunities. (Fall, odd years)

CFSC 201. Parenting I (F-2) 2 hours

A basic course in preparation for parenthood and the dynamics of parent-infant interaction. Particular emphasis will be given to family planning, the childbirth experience, and care of the infant. (Fall)

CFSC 202. Parenting II (F-2) 2 hours

An examination of a variety of specific techniques for developing communication and working relationships between parents and children. Discussion of common problems of young children and of methods of modifying behavior. Special emphasis will be given to discipline, communication skills, and understanding and relating to children's individual characteristics. (Spring)

CFSC 225. Life Skills 2 hours

A basic course presenting a variety of skills necessary for successful living in today's world. NOT available for credit towards a Home Economics major or minor.

CFSC 244. Household Equipment (G-2) 2 hours

Evaluation, use, and care of household appliances and equipment. (Spring, odd years)

CFSC 349. Interior Design (F-2) 3 hours

A basic design course dealing with the principles of applied art in the home. Two lectures and three hours of laboratory each week. (Spring, odd years)

CFSC 385. Home Management Seminar 1 hour

Studies in a variety of current trends relating to home management. Topics, announced in advance, will be chosen to meet student need and interest. (Fall, even years)

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CFSC 415. Practicum in Consumer and Family Sciences 2 hours

Prerequisites: Twenty hours in Consumer and Family Sciences including CFSC 147 and 349, and FDNT 317, or approval of the instructor.

Experience in solving problems of family living. Laboratory will include personal management as well as working in the community. Registration required at the department office one semester in advance. (Spring)

CFSC 465. Topics in Consumer and Family Sciences 1-3 hours

Selected topics in Consumer and Family Sciences presented in a lecture and/or laboratory setting. This course may be repeated for credit.

CFSC 485. Consumer and Family Sciences Seminar (W) 2 hours

Prerequisite: Twenty hours completed in Consumer and Family Sciences. Recent trends in Consumer and Family Sciences and related professional fields. Required of and limited to majors. (Spring, even years)

CFSC 295/495. Directed Study 1-3 hours

To permit the advanced student majoring in Consumer and Family Sciences to do individual work in the field under the direction of a staff member. By departmental approval which must be obtained before the semester begins.

EDUCATION

EDUC 438. Methods of Teaching Home Economics 2 hours

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials of instruction, planning, testing and evaluating student performances, the survey and evaluation of textbooks. Four lectures each week of the first half of the semester. (Fall)

(F-2), (F-3), (G-2), (W) See pages 15-18 for explanation of General Education requirements.

Chairman: Gerald Colvin

Faculty: Ben Bandiola, Jon Green, Carole Haynes, Cyril Roe, Helen Sauls, Jeanette Stepanske

Adjunct Faculty: Frank Di Memmo, Ernest Stevens, Faculty of Collegedale Academy, Faculty of Spalding Elementary School, Southern Union Elementary Supervisors and Superintendents

Advisory Council: Lyle Anderson, Ben Bandiola, Gerald Colvin, Jim Epperson, Merle Greenway, Carole Haynes, Charles Lindsey, Norwida Marshall, Larry Miller, Jeanette Stepanske, Don Weatherall

DEGREES OFFERED

BACHELOR OF ARTS DEGREE IN PSYCHOLOGY

Psychology has been a stand-alone major at Southern College for more than a decade, with graduates later pursuing study in such fields as marriage and family counseling, community and school counseling, school psychology, counseling and clinical psychology, and industrial and experimental psychology—as well as business, law, dentistry, and medicine. Statistical and simulation computer software have enhanced student research practice and training—with Apples, Model 4's, IBM's and compatibles, and campus terminals.

At Southern College—and elsewhere—the Psychology major is considered pre-professional. It is an undergraduate major in psychology which will serve as preparation for later study at the master's and doctoral degree levels. In order to improve one's chances for admission to graduate programs, a student will want to (a) achieve well in psychology and general education courses, (b) take as many psychology electives as possible, along with statistics and computer science, (c) obtain a competitive score on graduate admission tests (usually the GRE) taken during the fall of the senior year, and (d) apply to 10 or more specific schools for graduate study.

Major: Thirty hours including PSYC 124, 128, 315, 384 and 415. Cognate requirements are MATH 215 (with C- grade or above) and three hours each in biology and computer science.

Minor: Eighteen hours including PSYC 124, 128. Six hours of upper division are required for the minor in psychology.

TYPICAL SEQUENCE OF COURSES FOR B.A. PSYCHOLOGY*

(Biology Minor)

124 semester hours, 40 of which are upper division, are required.

PLEASE NOTE: It may not be necessary to take these courses in the order given. Please consult your advisor about the selection of courses.

YEAR 1			Semester		YEAR 2			Semester	
			1st	2nd				1st	2nd
PSYC 124	Intro to Psychology		3		PSYC 224	Social Psychology		3	
PSYC 128	Developmental Psychology			3	PSYC 233	Human Sexuality			3
ENGL 101-102	College Composition		3	3	MATH 215	Statistics			3
MATH 114	Precalculus			3	CPTR 105	Intro to Word Processing		1	
BIOL 151-152	General Biology		3	3	CPTR 106	Intro Spreadsheets		1	
	Area G-3			1	CPTR 107	Intro Data Base		1	
	Area B-1		3			Area B-2		3	
	Area C-1		3	3		Area D-2			3
			15	16		Area D-4			3
						Foreign Language		3	3
						Genetics		4	
								16	15

YEAR 3			Semester		YEAR 4**			Semester	
			1st	2nd				1st	2nd
PSYC 384	Experimental Psychology		3		PSYC 315	Abnormal Psychology			3
PSYC 326	Physiological Psychology			3	PSYC 415	History and Systems Psych		3	
PSYC 377	Fundamentals of Counseling		3		BIOL 317	Ecology		3	
BIOL 415	Comparative Anatomy			3	BIOL 418	Animal Physiology			3
	Area B-1		3			Religion (U.D.)			3
	Area C-2		3			Area E-3, Natural Science		3	
	Electives		4	1		Electives		6	6
			16	17				15	15

* A minor in Biology could be helpful. A three-hour course in Mathematics is required if the ACT standard mathematics score is below 22. An additional one-hour course in MATH 100 Basic Mathematics is required if the ACT score is below 16. Three writing classes are required, including at least one in the major and one not in the major.

** The student working toward a Psychology major should take the GRE Aptitude and Advanced (Psychology) tests in the fall of his or her senior year.

BACHELOR OF SCIENCE DEGREE IN ELEMENTARY EDUCATION

Major: Forty-one hours including EDUC 125, 134, 217, 230 or 231, 240, 250, 332, 333, 356, 427, 443, 453, 454, 455, 456, 457, and 467. Cognate requirements include HLED 203, GEOG 204, LIBR 325, ENGL 218. (ENGL 218 not required for students with English ACT of 25 or above.)

TYPICAL SEQUENCE OF COURSES FOR B.S. ELEMENTARY EDUCATION

YEAR 1		Semester	
		1st	2nd
ENGL 101-102	College Composition	3	3
RELT 138	Adventist Heritage	3	
BIOL 104	Princ of Biology + lab	4	
SOCI 125	Intro to Sociology	3	
HLED 203	Safety Education	2	
EDUC 125	Foundations of Education	3	
SPCH 135	Intro to Public Speaking	3	
PEAC	Elective	1	
HLED 173	Health and Life	2	
EDUC 134	Princ of Christian Educ	2	
MATH 103	Survey of Math (math elec)	3	
		16	16

NOTE: At the end of this year apply for admission to Teacher Education Program. Forms in SH 103. The PPST and the 16 PF must be passed at the appropriate levels before admission to Teacher Education Program. Admission is necessary to take Education courses 200 or above.

YEAR 2		Semester	
		1st	2nd
HIST 154-155	American History	3	3
EDUC 250	Computers in Classroom	2	
GEOG 204	World Geography	3	
ERSC 105	Earth Science (+ lab)	4	
PEAC	Elective		1
EDUC 240	Exceptional Child	2	
EDUC 231	Music Methods		
OR		2	
EDUC 230	Art Methods		
HMNT 205	Arts and Ideas		3
MATH	(104, 114, 215)		3
RELT 255	Christian Beliefs		3
EDUC 217	Psychological Found		3
		16	16

NOTE: An alternative to HMNT 205 is to take both MUHL 115 and ART 318.

YEAR 3		Semester	
		1st	2nd
ENGL 218	Principles of Grammar	2	
ENGL	Literature Elective	3	
EDUC 332	Teaching of Reading	2	
PEAC	Elective	1	
CHEM PHYS	Elective with lab	4	
EDUC 453	Math Methods	2	
EDUC 454	Sci/Hlth Methods	2	
EDUC 456	Language Arts Methods	2	
EDUC 333	Developmental Reading	2	
LIBR 325	Library Material for Chn	3	
PETH 463	PE in the Elem. School	2	
RELB	Area B-1, Biblical Stud	3	
	Elective	2	
		15	15

NOTE: Apply for Student Teaching. Forms in SH 103.

YEAR 4		Semester	
		1st	2nd
PEAC	Elective	1	
EDUC 455	Bible Methods	2	
EDUC 457	Social Studies Methods	2	
ENGL	Literature Elective	3	
EDUC 427	Current Issues in Educ	2	
EDUC 356	Tests & Measurements	2	
EDUC 443	Classroom Competeancies	3	
EDUC 467	Student Teaching Pract	8	
RELB	Area B-1, Bib Stud (U.D.)	3	
	Elective	4	
		15	15

NOTE: NTE Examination must be taken during Senior year before the student can be recommended for certification.

See pages 12, 13 and 15-18 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

TEACHER EDUCATION PROGRAMS

Southern College has approved teacher certification programs in three levels:

K-8

Elementary

K-12

Art Education

Health/Physical Education

Music Education

7-12

- Bible Education
- Business Education with cluster endorsements in
 - Accounting
 - Basic Business
 - Data Processing
 - Office Technology
- Biology Education
- Chemistry Education
- English Education
- Foreign Language Education
- History Education
- Mathematics Education
- Physics Education

Philosophy and Objectives

The Department of Education and Psychology is the unit duly authorized to prepare teachers who meet certification requirements for public, church-related, and other private elementary and secondary schools. The teacher education programs in the unit are founded upon a liberal arts demand for breadth and depth of knowledge and experience and on the belief that a teacher should be a good example in health, intellect, and character. This program of teacher education is guided by the following statement of mission:

Statement of Mission

The Education Department operates within the context of the educational philosophy and objectives of Southern College of Seventh-day Adventists. The Education Department is committed to preparing educational personnel—primarily for the Seventh-day Adventist Church school system and, secondarily, for the public schools—who can function effectively in a culturally pluralistic society and successfully serve school clientele with diverse backgrounds and abilities. The Education Department is further committed to utilizing the latest developments in technology, educational research, academic resources of the institution and allied agencies, and personnel to provide a unified approach to general education, professional studies and specialty studies.

Objectives of the Teacher Education Program

The teacher education program at Southern College of Seventh-day Adventists is designed to help the teacher candidate develop personal values and acquire the knowledge, skills, and competencies needed to function effectively in the teacher's role as a person, a facilitator of learning, a practitioner, and a professional.

The Teacher As a Person

To promote the personal development of the prospective teacher which includes physical, aesthetic, intellectual, and moral, by guidance and advisement through general education which results in:

1. an understanding, appreciation, and enjoyment of man's creative activity in the humanities, social, and natural sciences;
2. a development of personal values that recognize our pluralistic cultural heritage as well as individual worth and integrity and brotherhood of mankind under God;
3. the ability to communicate ideas clearly and effectively in reading, writing, speaking, and listening;
4. an appreciation of the value of health and the importance of health practices in home and family life.

The Teacher As a Facilitator of Learning

To provide a set of educational experiences that will enable the teacher candidate to master the skills in:

5. planning curriculum encounters with learners with appropriate materials and instructional strategies;
6. identifying learning objectives at appropriate levels;
7. using diagnostic and evaluation strategies;
8. handling classroom management and reinforcement strategies;
9. applying principles of human growth and development and theories of learning to classroom situations;
10. integrating faith and learning, along with emphasizing character development;
11. recognizing and encouraging creativity and the maximum possible development of student abilities.

The Teacher As a Practitioner

To maintain a learning environment that is conducive to acquiring the knowledge, skills and competencies that characterize successful practitioners through:

12. enhancement of positive attitude toward self, intellectual curiosity, and independent critical thinking;
13. continuing experimentation and innovation with new pedagogical practices and basic tools of learning;
14. utilization of translatable research;
15. on-campus instruction and off-campus field experiences in public and private schools.

The Teacher As a Professional

To provide a social-emotional climate and opportunities for the development of leadership skills while encouraging attitude and experiences that foster professional growth by:

16. participating actively in the campus student education association;
17. becoming familiar with the professional organizations and their journals and the nature of the articles reported in them;
18. keeping abreast with developments in education, school reform and legislation;
19. participating in activities that enhance church, home, and community relationships.

Advisement

The major goal of the advisement process is to orient the teacher candidate with the total teacher education program, with major emphasis on its three components, namely, general education, professional education, and specialty studies. This is accomplished by the academic advisor as he/she interacts with his/her advisees during advisement sessions.

Each student accepted at Southern College who indicated that teaching is his/her professional objective is assigned an educational program advisor by the Chairman of the Department of Education and Psychology in cooperation with the advisement coordinator in the Records Office. Elementary education majors are assigned one major advisor from the Department while teacher candidates pursuing K-12 and 7-12 teaching certification programs are assigned two advisors, one in their special content area and another in education. Both advisors sign the students' registration form during advisement period and at registration time. The advisors assist in planning a student's academic program each year and guide their advisees through the various stages of the teacher education program. Students are responsible for making the necessary applications, meeting the requirements, and the relevant deadlines.

Requirements

Admission to Southern College does not automatically enroll the student in teacher education. There are three stages that students must go through to become a certified elementary or secondary teacher.

I. ADMISSION TO THE TEACHER EDUCATION PROGRAM

- A. The first semester of the sophomore year but no later than the second semester of the sophomore year, the student should file a formal application for admission to the teacher education program. This applies to both elementary and secondary teacher education candidates. Transfer students wishing to enter the Teacher Education program later than the sophomore year should file an application the first semester in residence. Upon application to Teacher Education Program a file is set up for each applicant containing relevant information to the

up for each applicant containing relevant information to the student's candidacy. Students who desire to teach are urged to seek admission as soon as possible in the sophomore year.

- B. Teacher education institutions are charged with the responsibility of assuring that students approved for entrance into teacher preparation programs demonstrate competency in the verbal and quantitative skills at an approved performance level. As a requirement for admission to the Teacher Education Program, all students must demonstrate this competency by obtaining a specific score on the Pre-Professional Skills Test (PPST), a standardized test approved by the Tennessee State Board of Education. Inquiries concerning this test may be made with the Testing and Counseling office.
- C. The Education faculty, along with other personnel, evaluate the candidates and recommend them to the Teacher Education Council. The Council will then admit competent individuals who also meet the following criteria:
 - 1. Be in residence at the College.
 - 2. Have an overall grade point average of 2.50.
 - 3. Have completed ENGL 101-102 with a minimum of C-.
 - 4. Show evidence of physical, mental, and moral fitness.
 - 5. Indicate professional commitment to education at time of interview with the Education faculty.
 - 6. Have successfully completed the following classes: EDUC 125 and 134 with a minimum of C-.
 - 7. Have passed the Pre-Professional Skills Test (PPST) which is the entrance competency test required by the State of Tennessee.
 - 8. Have taken the 16-Personality Factor Questionnaire.
- D. The student will be informed in writing as to the status of the application for admission following the action of the Teacher Education Council.
- E. Upon admission into the Teacher Education program students will be permitted to take education courses numbered 200 or above.
- F. After admission into the Teacher Education program, the teacher candidate assumes greater responsibility for meeting certification requirements. This will involve periodic review of his/her program with the certification officer.

II. ADMISSION TO PROFESSIONAL SEMESTER

- A. A formal application must be filed with the Division Chairman prior to the end of the junior year. A later application may delay the student teaching experience.

B. Applicant's qualifications:

1. Before applicants may be admitted to the professional semester, they must have completed all lower division professional education courses, plus at least 8 hours in methods courses for the elementary school majors. Student teaching is regarded as the culminating experience of the Teacher Education program.
2. Elementary education applicants must have a grade point average of at least 2.50 in the professional core and 2.50 in required non-major subjects.

Secondary teacher education applicants must have a minimum grade point average of 2.50 in the professional core subjects and 2.50 for subject area endorsements both overall and at Southern College.

3. All applicants must show evidence of good physical and mental health.
 4. All applicants must adhere to the standards and objectives of Southern College and the teacher education program.
 5. All applicants must be approved by action of the Education faculty and the Teacher Education Council.
- C. Students will be informed in writing as to their status in the teacher education program.

III. RETENTION IN THE TEACHER EDUCATION PROGRAM

A. After the applicant has been admitted to the teacher education program his/her progress will be reviewed after each nine-week period by the Department Chairman or a delegated member of the Education faculty.

1. Criteria include:

- a. Adequate academic progress including maintenance of the academic standard required for admission to the teacher education program.
- b. Consistent personal representation of the standards and objectives of Southern College and the teacher education program.

B. The teacher education faculty reserves the option to disqualify a person at any point in his teacher education program if it becomes evident that standards for admission are not being upheld. The student has the right to appeal any such decision through the Teacher Education Council with the Academic Dean in consultation.

C. The required courses for graduation may be altered during the student's program at any time to meet revised certification standards of either the denomination or the state. It is the

responsibility of each student to check periodically with the certification officer to ensure requirements are being met.

Appeal Procedures

If a student wishes to contest a decision of the Teacher Education Council, a request for an appeal meeting with the Council may be brought to the chairman of the council. The chairman calls for a meeting where the contested decision is reviewed. If the decision remains unacceptable, a hearing before the student grievance committee, which is set up by the College Administration, may be requested. The decision of the committee is binding and will be implemented.

Teacher Certification

Certification is the process of granting legal authorization to teach in the public or private elementary or secondary schools of a state or of the Seventh-day Adventist Church based on meeting predetermined qualifications. Certification has been established to give professional status to qualified teachers and to assure school boards and parents that the teacher is well prepared.

Who can obtain certification?

Every student who successfully completes the requirements for teaching in the elementary or secondary school and graduates from Southern College will receive recommendation for certification based upon the following criteria:

- A. Successful completion of student teaching assignment
- B. Satisfactory completion of all credential requirements
- C. Recommendation of major departments
- D. Satisfactory score on the core battery and appropriate specialty area of the National Teacher Examination
- E. Approval of the Teacher Education Council.

Certification is not automatic. The eligible candidate must make the necessary application to the appropriate union conference for denominational certification and to the specific state department of education where the candidate expects to teach. Information regarding certification is available through the certification officer. Since teacher certification regulations are always in the process of change, graduating teacher education candidates are urged to make their applications for certification immediately.

What certificates may be obtained?

- A. Teacher's Certificate (Tennessee)

A certificate is issued on the basis of a minimum of a Bachelor's Degree with a major in at least one subject teaching field and the completion of an approved teacher education program.

B. Other States

Similar to A

Graduates of NCATE-approved teacher education programs are eligible for reciprocity when applying to teach in the elementary or secondary schools of many states. Since the teacher education program of Southern College is NCATE-accredited, graduates qualify for this privilege.

C. Basic Certificate (SDA denominational)

Required by Seventh-day Adventist Department of Education, this seven-year denominational certificate is issued on the basis of completing the following courses in addition to the above requirements.

RELT 255	Christian Beliefs	3 hours
RELT 138	Adventist Heritage	3 hours
RELB	Biblical Studies	6 hours
HLED 173	Health and Life	2 hours

Requirements for Certification

Candidates for state certification must complete the appropriate teacher preparation curriculum. This consists of three components—general education, professional education, and speciality studies.

A. General Education — 45-50 hours

This component represents that portion of the total teacher education program designed to foster the development of those competencies that are basic to all life's responsibilities and provide intellectual foundation in the liberal arts. Students pursuing a teacher education curriculum must work closely with their advisors for guidance in the selection of general education courses that are appropriate to their individual needs. Relevant courses are listed under seven areas of the general education requirements in the Southern College Catalog.

Subject Matter Requirements: Even though the Elementary Education student may elect to take a major and a minor in teaching fields represented in the elementary school curriculum, he or she must also satisfy the following Tennessee requirements for certification:

1. *Basic Academic Skills*

ENGL 101-102	College Composition	6 hours
MATH	Mathematics	6 hours

2. *Religion* 12 hours

RELT 255	Christian Beliefs	3 hours
RELT 138	Adventist Heritage	3 hours
RELB		6 hours

3. *History/Political Science/Economics*

HIST 154,155	American History	6 hours
GEOG 204	World Geography	3 hours

4. *Language/Literature/Fine Arts*

MUHL 115	Listening to Music	
ART 218	Art Appreciation	
	OR	3-5 hours
HMNT 205	Humanities	
	Literature	6 hours
	Speech	3 hours

5. *Science*

Biology	4 hours
Chemistry or Physics	4 hours
Earth Science	4 hours

6. *Behavioral and Family Science*

SOCI 125	Intro to Sociology	
	OR	3 hours
SOCI 365	Family Relations	
HLED 173	Health and Life	2 hours
HLED 203	Safety Education	2 hours

7. *Skills*

LIBR 325	Library Materials for Children	3 hours
	Physical Education	
	activity courses	4 hours
PETH 463	Physical Education in the	
	Elementary School	2 hours

The professional education requirements for elementary education are listed together with the requirements for specialty studies.

B. Professional Education — 28 hours

The following courses are required for secondary teaching certification:

1. Must be taken prior to admission to Teacher Education Program.

EDUC 125	Foundations of Education	3 hours
EDUC 134	Principles of Christian Education	2 hours
2. To be taken only after admission into Teacher Education Program.

EDUC 217	Psychological Foundations of Education .	3 hours
EDUC 240	Education for Exceptional	
	Children and Youth	2 hours
EDUC 356	Tests and Measurements	2 hours
EDUC 427	Current Issues in Education	2 hours
EDUC 432	Reading in the Secondary School	2 hours
3. To be taken during the professional semester.

EDUC 437	Curriculum and General Methods	2 hours
EDUC 438	Special Methods Grades 7-12	2 hours
EDUC 468	Student Teaching Grades 7-12	8 hours

Professional Semester:

One semester of the senior year is a professional semester.

Some secondary methods classes are taught only first or second semester. Consult class schedule for current offerings.

Courses marked in section B3 above should be taken in the following sequences:

First part of the semester:

EDUC 437	Curriculum and General Methods	2 hours
EDUC 438	Special Methods Grades 7-12	2 hours
EDUC 468	Student Teaching Grades 7-12 (Seminar) .	1 hour

Second part of the semester:

EDUC 468	Student Teaching Grades 7-12 (full day) .	8 hours
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Because of time commitments during the student teaching experience, employment *will not* be permitted and additional course work will be by permission only.

The Education faculty will endeavor to provide the opportunity for student teachers to teach in off-campus student teaching centers.

Correspondence credit will be accepted to the extent of one-fourth of the credit required for the certificate provided that no more than four semester hours in education are applied on the professional education requirement. If personal circumstances demand a correspondence course, a petition must be filed with the Teacher Education Council and its approval obtained before registering for the course. The course must be completed and the grade filed in the Records Office before student teaching is begun.

It is expected that any student entering the professional semester will have completed all course materials up to that point. Specifically, no student will be allowed to enter Special Methods of Teaching (EDUC 438) or Curriculum and General Methods (EDUC 437) with any incompletes on their transcript.

A major is not always required for additional endorsements. A minor is always acceptable as a second field for SDA certification.

C. Specialty Studies — 30-50 semester hours

*Art Education K-12

Required		17
ART 104	Beginning Drawing I	2
ART 105	Beginning Drawing II	2
ART 109	Design I	3
ART 110	Design II	3
ART 344	History of Art	3
ART 345	Contemporary Art	3
ART 499	Senior Project	1

* No new majors accepted after 1988-89 school year.

Electives (at least 14 hours Upper Division)		19
ART 215	Sculpture	3
ART 217	Printmaking	3
ART 221	Painting I	3
ART 222	Painting II	3
ART 235	Ceramics	3
ART 311	Painting III	3
ART 312	Painting IV	3
ART 313	Drawing III	3
ART 314	Drawing IV	3
ART 295/495	Directed Study	1-3
ART 218 or 318	Art Appreciation	3
TOTAL		36

Bible Education 7-12

Major (33 hours)

RELB 125	Life and Teachings of Jesus	3
RELT 138	Adventist Heritage	3
RELB 236	Biblical Interpretation	3
RELB 345	Pentateuch and Writings	3
RELB 346	Prophets	3
RELB 435	New Testament Studies I	3
RELB 436	New Testament Studies II	3
RELB 425	Studies in Daniel	3
RELB 426	Studies in Revelation	3
RELT 484	Christian Theology I	3
RELT 485	Christian Theology II	3
TOTAL		33

Biology Education 7-12

There are two tracks leading to certification for teaching biology in the secondary schools—B.A. or B.S. in biology for secondary teaching. The B.A. track requires a 20-hour minor in chemistry or physics. The B.S. track is a 40-hour major with 22 hours cognates.

B.A. in Biology

Major (31 hours)

BIOL 151, 152	General Biology	8
BIOL 316	Genetics	4
BIOL 330	General Microbiology	4
BIOL 424	Issues in Natural Science	3
BIOL 485	Biology Seminar	1
BIOL 226	Environment and Man OR	3
BIOL 317	Ecology	3
BIOL 408	Flowering Plants	3
BIOL 418	Animal Physiology OR	3
BIOL 419	Plant Physiology Biology elective	3

(Vertebrate field course highly recommended)

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Minor (20 hours)

	CHEMISTRY	
CHEM 151-152	General Chemistry	8
CHEM 311-312	Organic Chemistry	8
CHEM 323	Biochemistry	4
	OR	
	PHYSICS	
PHYS 211-214	General Physics	8
	Physics electives	12

Cognate (10 hours)

CPTR	Computer Course	3
MATH 215	Statistics	3
ERSC 105-106	Earth Science	4

B.S. in Biology

Major (40 hours)

BIOL 151-152	General Biology	8
BIOL 316	Genetics	4
BIOL 330	General Microbiology	4
BIOL 424	Issues in Natural Science	3
BIOL 485	Biology Seminar	1
BIOL 226	Environment and Man	
	OR	3
BIOL 317	Ecology	
BIOL 412	Cell Biology	3
BIOL 408	Flowering Plants	3
BIOL 418	Animal Physiology	
	OR	3
BIOL 419	Plant Physiology	
BIOL 415	Comparative Anatomy	(3)
	OR	
BIOL 101-102	Anatomy and Physiology I, II	(6)
	Biology elective	3-6

(Vertebrate field course highly recommended)

Cognates (22 hours)

CHEM 151-152	General Chemistry	8
MATH 114	Elementary Functions and Relations	4
MATH 215	Statistics	3
ERSC 105-106	Earth Science	4
CPTR	Computer Course	3

Business Education 7-12

Core Requirements

ACCT 121-122	Principles of Accounting	6
ECON 224-225	Principles of Economics	6
BUAD 339	Business Law	3
SECR 315	Business Communications	3
SECR 218	Business Math and Calculating Machines	2

SECR 105	Beginning Typewriting	3
CPTR 120	Computer-Based Systems	3
BUAD 128	Personal Finance	3
BUAD 334	Principles of Management	3
BUAD 315	Business Finance	3
TOTAL		35

Additional Requirements for Cluster Endorsements

Basic—Business

BUAD 358	Business/Ethical/Social Environment of Business	3
ECON 224, 225	Principles of Economics	6

Accounting

ACCT 211-212	Intermediate Accounting	6
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Data Processing

CPTR 131	Basic Programming Language I	3
	Two of the following: CPTR 105, 106, or 107 .	2
MATH 104	Intermediate Algebra	3

Office Technology

SECR 214	Advanced Typewriting	3
SECR 223	Concepts of Information Processing	2
SECR 323	Word Processing Text-Editing	3
SECR 213	Records Management	2
SECR 317	Secretarial Procedures	3
SECR 104	Shorthand I	4
SECR 114	Shorthand II	4

Chemistry Education 7-12

Major

CHEM 151	General Chemistry	4
CHEM 152	General Chemistry	4
CHEM 311	Organic Chemistry	3
CHEM 312	Organic Chemistry	3
CHEM 313	Organic Chemistry Lab	3
CHEM 314	Organic Chemistry Lab	3
CHEM 315	Analytical Chemistry	4
CHEM 325	Organic Qualitative Analysis	2 or 3
CHEM 321	Instrumental Analysis	4
CHEM 485	Chemistry Seminar	1

Cognates

MATH 181	Calculus I	4
CPTR 131	Fundamentals of Programming	3

Elementary Education K-8

EDUC 125	Foundations of Education	3
EDUC 134	Principles of Christian Education	2
EDUC 217	Psychological Foundations	3

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EDUC 230	Elementary Methods in Curriculum and Instruction: Art	(2)
	OR	
EDUC 231	Elementary Methods in Curriculum and Instruction: Music	(2)
EDUC 240	Education for Exceptional Children and Youth	2
ECUC 332	Teaching of Reading	2
EDUC 333	Developmental Reading	2
EDUC 356	Tests and Measurements	2
EDUC 427	Current Issues in Education	2
EDUC 443	Classroom Competencies	3
EDUC 453	Math Methods in the Elementary School	2
EDUC 454	Science and Health Methods in the Elementary School	2
EDUC 455	Bible Methods in the Elementary School	2
EDUC 456	Language Arts Methods in the Elementary School	2
EDUC 457	Social Studies Methods in the Elementary School	2
EDUC 467	Student Teaching, 1-8	8
	TOTAL	41
Cognates		
HLED 203	Safety Education	2
GEOG 204	World Geography	3
LIBR 325	Library Materials for Children	3
ENGL 218	Principles of Grammar	2
	(or English ACT of 25 or above)	
	TOTAL	10
English Education 7-12		
ENGL 215	Survey of English Literature	3
ENGL 216	Approaches to Literature	3
ENGL 218	Principles of Grammar	2
ENGL 314	Creative Writing	3
ENGL 315	Introduction to Linguistics	2
ENGL 335	Biblical Literature	3
ENGL 445	World Literature	3
	Two of the following three:	6
ENGL 214	Survey of American Literature (3)	
ENGL 333	American Literature From Colonial Through Romantic Periods (3)	
ENGL 334	American Literature From Realism to the Present (3)	
	Two of the following four:	6
ENGL 336	Medieval and Renaissance Literature (3)	
ENGL 337	Nineteenth-Century British Literature (3)	
ENGL 338	Twentieth-Century Writers (3)	
ENGL 444	Restoration and Eighteenth- Century Literature (3)	
	TOTAL	31

Cognates

HIST 374	History of England	3
HMNT 205	Arts and Ideas	3
	Intermediate foreign language	6
LIBR 425	Library Materials for Young Adults and Adults	2
EDUC 332	Teaching of Reading	2
	OR	
EDUC 333	Developmental Reading	2
TOTAL		16

Health, Physical Education and Recreation Education K-12

Major (40 hours)

HLED 173	Health and Life	2
HLED 314	Kinesiology	3
HLED 315	Physiology of Exercise	3
HLED 373	Care and Prevention of Athletic Injuries	2
HLED 473	Health Education	2
PETH 121	Professional Skills, Team Activities	2
PETH 122	Professional Skills, Team Activities	2
PETH 221	Professional Skills, Individual Activities	2
PETH 222	Professional Skills, Individual Activities	2
PETH 265	Officiating Sports Analysis	2
PETH 266	Officiating Sports Analysis	2
PETH 363	Introduction to Measurement and Research of Physical Education	3
PETH 364	Principles and Administration of Physical Education and Recreation	3
PETH 374	Motor Learning and Development	2
PETH 463	Physical Education in the Elementary School	2
PETH 295/495	Directed Study	1-2
PEAC 254	Lifesaving	1
PEAC 255	Water Safety Instructor	1

Cognates

FDNT 125	Nutrition	3
BIOL 101, 102	Anatomy and Physiology	3

History Education 7-12

Required

HIST 154	American History and Institutions	3
HIST 155	American History and Institutions	3
HIST 174	Survey of Civilization	3
HIST 175	Survey of Civilization	3
HIST 499	Research Methods in History	3
PLSC 254	American National and State Government ...	3

Electives (2 courses from each area)

Area 1: American History		6
HIST 354	Latin America (3)	
HIST 355	History of the South (3)	

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HIST 356	Natives and Strangers (3)	
HIST 357	Modern America (3)	
HIST 359	Transformation of American Culture (3)	
Area 2: European History		6
HIST 374	History of England (3)	
HIST 375	Ancient World (3)	
HIST 386	Rise of the West (3)	
HIST 389	Vienna to Vietnam (3)	
HIST 364	Christian Church I: From the Early Church Through the Middle Ages (3)	
HIST 365	Christian Church II: From the Reformation Through the 20th Century (3)	
	TOTAL	30

Mathematics Education 7-12

MATH 114	Elementary Functions and Relations	3
MATH 181	Calculus I	4
MATH 182	Calculus II	4
MATH 218	Calculus III	3
MATH 216	Set Theory and Logic	2
MATH 318	Algebraic Structures	3
MATH 411	Intermediate Analysis	3
MATH 485	Mathematics Seminar	1
Three courses from the following:		
MATH 215	Statistics	3
MATH 314	Applied Finite Mathematics	3
MATH 315	Differential Equations	3
MATH 316	Mathematics of Physics	3
MATH 317	Complex Variables	3
MATH 319	Linear Algebra	3
MATH 405	Numerical Analysis	3
MATH 412	Intermediate Analysis	3
MATH 415	Geometry	3
Cognates		
CPTR 131	Fundamentals of Programming OR	3
CPTR 218	FORTRAN Programming Language	

Modern Languages

French

A. Single Endorsement

2 Years High School French

OR

FREN 101-102	Elementary French	6
FREN 211	Intermediate French	3
FREN 212	Intermediate French	3

Electives — 12 semester hours from the following overseas studies:

(The following electives are in quarter hours.)

FREN 210	Phonetics (2)
FREN 220	Elementary Composition (2-3)

FREN 230	Elementary Orthography (2-3)	
FREN 251-53	Elementary Conversation (3-9)	
FREN 254-56	Religious Conversation (3-6)	
FREN 300	Advanced French (6)	
FREN 320	Intermediate Composition (2-3)	
FREN 321	Advanced Composition (3)	
FREN 330	Intermediate Orthography (2-3)	
FREN 351-53	Intermediate Conversation (6)	
FREN 354-56	Religious Conversation (3-6)	
FREN 361-63	Literary Discussion (6-9)	
FREN 381-83	Introduction to French Literature (6)	
FREN 421-22	Literary Composition (6)	
FREN 431-32	Advanced Orthography (6)	
FREN 441-43	Advanced Grammar (6-12)	
FREN 451-53	Advanced Conversation (6)	
FREN 461-63	Literary Discussion (9)	
FREN 471-73	French Civilization (9)	
FREN 481-83	Studies in French Literature (9)	
FREN 491-93	Studies in French Literature (9)	
	TOTAL	18
B. Group Endorsement Plan		
2 Years High School French		
OR		
FREN 101-102	Elementary French	6
	From section A above	12
	Second Language	12
	Electives from A above and/or	
	Second Language	6
German		
A. Single Endorsement		
2 Years High School German		
OR		
GRMN 101-102	Elementary German	6
GRMN 211	Intermediate German	3
GRMN 212	Intermediate German	3
Electives — 12 semester hours from the following overseas studies:		
GRMN 211	Composition - Dictation I	2
GRMN 221	Conversation I	1
GRMN 231	Reading and Pronunciation I	1
GRMN 301	Grammar II	2
GRMN 302	Grammar III	4
GRMN 305	Spelling II	1
GRMN 306	Spelling III	1
GRMN 311	Composition and Dictation II	2
GRMN 312	Composition and Dictation III	2
GRMN 321	Conversation II	1
GRMN 322	Conversation II	1
GRMN 331	Reading and Pronunciation II	1
GRMN 332	Reading and Pronunciation III	1
GRMN 334-35	Survey of German Literature	6
	TOTAL	18

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B. Group Endorsement Plan
 2 Years High School German
 OR
 GRMN 101-102 Elementary German 6
 From section A above 12
 Second Language 12
 Electives from A above and/or
 Second Language 6

Spanish

A. Single Endorsement
 2 Years High School Spanish
 OR
 SPAN 101-102 Elementary Spanish 6
 SPAN 211 Intermediate Spanish 3
 SPAN 212 Intermediate Spanish 3
 Electives — 12 semester hours from the following overseas studies:
 SPAN 251 Intermediate Spanish Grammar 3
 SPAN 261 Intermediate Spanish Composition 3
 SPAN 271 Intermediate Spanish Conversation 3
 SPAN 301 Spanish Folklore 3
 SPAN 311 Spain and Its Culture 3
 SPAN 331 History of Spain Literature 3
 SPAN 341 History of Spanish American
 Literature 3
 SPAN 351 Advanced Spanish Grammar 3
 SPAN 361 Advanced Spanish Composition 3
 SPAN 371 Advanced Spanish Conversation 3

TOTAL 18

B. Group Endorsement Plan
 2 Years High School Spanish
 OR
 SPAN 101-102 Elementary Spanish 6
 From section A above 12
 Second Language 12
 Electives from A above and/or
 Second Language 6

Music Education K-12

Music Core
 MUCT 111-112 Music Theory I, II 6
 MUCT 121-122 Aural Theory I, II 2
 MUCT 211-212 Advanced Music Theory III, IV 6
 MUCT 221-222 Advanced Aural Theory III, IV 2
 MUHL 320-323 Music history courses 8
 MUPF 477 Instrumental Conducting Techniques 3
 MUPF 478 Choral Conducting Techniques 3
 MUCT 313 Orchestration and Arranging 3

TOTAL 33

Vocal/General Endorsement

A. Applied Music Concentration Voice

	Applied Concentration	14
	Appropriate Ensembles	8
MUED 231	Music Methods in Elementary School	2
MUED 317	Voice Pedagogy	2
MUED	Elective	2
MUED 439	Pre-Student Teaching Seminar	1
	Music Elective	4
	TOTAL	33

B. Applied Concentration Keyboard

	Applied Concentration (Piano or Organ)	14
	Applied Concentration (Voice)	4
	Appropriate Ensembles	8
MUED 231	Music Methods in Elementary School	2
MUED 317	Voice Pedagogy	2
MUED 316	Piano Pedagogy (Piano Concentration) OR	
MUED 318	Organ Pedagogy (Organ Concentration)	2
MUED 439	Pre-Student Teaching Seminar	1
	TOTAL	33

C. Applied Concentration Instrumental

	Applied Music Concentration (one instrument: wind, string, or percussion)	14
	Appropriate Ensemble(s)	8
	Secondary Instrument Instruction (must include at least two areas, excluding keyboard)	6
	Instrumental Music Methods and Materials	6
MUED 439	Pre-Student Teaching Seminar	1
	TOTAL	35

Physics Education 7-12

Major

PHYS 155	Descriptive Astronomy: Creation vs. Evolution	3
PHYS 211-212	General Physics	6
PHYS 213-214	General Physics Lab	2
PHYS 310	Modern Physics	3
PHYS 311-312	General Physics Calculus Applications	2
PHYS 313	Physical Optics	3
PHYS 411	Quantum Mechanics	3
PHYS 412	Thermodynamics	3
PHYS 413	Analytic Mechanics	3
PHYS 480	Scientific Writing	1
PHYS 495	Directed Study	1

Cognates

BIOL 151-152	General Biology	8
CHEM 151-152	General Chemistry	8
CPTR 218	FORTRAN	3
ERSC 105	Earth Science	3
ERSC 106	Earth Science Lab	1
MATH 181	Calculus I	4
MATH 215	Statistics	3
MATH 182	Calculus II	3
MATH 315	Differential Equations	3
MATH 316	Math of Physics	3
MATH 415	Geometry	3

It is expected that any student entering the professional semester will have completed all course materials up to that point. Specifically, no student will be allowed to enter Special Methods of Teaching (EDUC 438) or Curriculum and General Methods (EDUC 437) with any incompletes on his/her transcript.

ADDITIONAL TEACHING CERTIFICATES

In order for a person to obtain an additional teaching credential, the classwork for that credential may not be completed before the original credential is issued.

1. PROGRAM FOR ELEMENTARY ENDORSEMENT FOR INDIVIDUALS MEETING REQUIREMENTS FOR SECONDARY CERTIFICATION. Eighteen semester hours listed below are required. A minimum of 12 semester hours from these courses must be completed after the date the applicant became eligible for a professional certificate endorsed in a subject area in grades 7-12 or in a subject area in grades K-12.

A. Required Courses:

EDUC 332	Teaching of Reading	2
EDUC 333	Developmental Reading	2
EDUC 453	Mathematics Methods in the Elementary School ...	2
EDUC 454	Science and Health Methods in the Elementary School	2
EDUC 455	Bible Methods in the Elementary School	2
EDUC 456	Language Arts Methods in the Elementary School .	2
EDUC 457	Social Studies Methods in the Elementary School .	2

B. Four semester hours to include two of the following three areas:

EDUC 230	Elementary Methods in Curriculum and Instruction: Art	2
EDUC 231	Elementary Methods in Curriculum and Instruction: Music	2
PETH 463	Physical Education in the Elementary School	2

- C. Two semester hours must be in Education of Exceptional Children if not previously successfully completed. If Education of Exceptional Children or any of the above required courses in Section A or Section B have been previously completed, the remaining semester hours must be taken from the following courses:
- a. Children's Literature
 - b. Tennessee History
 - c. Health
 - d. Geography
- D. Two to three semester hours of student teaching.
2. PROGRAMS FOR SECONDARY ENDORSEMENT FOR INDIVIDUALS MEETING REQUIREMENTS FOR ELEMENTARY EDUCATION CERTIFICATION. Ten semester hours of credit after the date the original certificate was earned. Six semester hours of the ten must be in specialized professional education appropriate to grades 7-12 and must include a minimum of 2 semester hours of appropriate methods. The credit for at least one area of endorsement in grades 7-12 may have been earned at any time prior to the application for adding the endorsement.
1. Meet the State of Tennessee requirements for endorsement in at least one teaching field (this will vary from 18 to 51 hours).
 2. A minimum of six semester hours of professional education including:
 - A. EDUC 437 or EDUC 438.
 - B. Any other courses designated by the Department of Education and Psychology.
 3. Four semester hours of electives in addition to the Elementary Education degree requirements.
3. APPROVED PROGRAM IMPLEMENTATION BY STATE BOARD OF EDUCATION
- Procedures for securing Southern College's recommendation for state certification of students from institutions located out of the state:
1. Application is made to the teacher certification officer through the Records Office accompanied by an official transcript and a recommendation from the applicant's school.
 2. Assessment of deficiencies will be made by the Teacher Certification Officer and approved by the Department of Education and Psychology and the Teacher Education Council.
 3. The Teacher Certification Officer will inform the applicant of any deficiencies.
 4. A fee of twenty-five dollars (\$25) will be charged for this service, to be refunded upon completion of courses at Southern College.

EDUCATION

EDUC 100. Student Orientation

1 hour

A course designed to introduce and facilitate adjustment to college life. Topics covered include college-level study skills, time management, on-campus student services, and an introduction to various departments of study regarding career planning.

EDUC 125. Foundations of Education

3 hours

An orientation to early childhood, elementary and secondary education. Included in this course are 20 hours of observation in child care, elementary and secondary classrooms and a study of the history and organization of education, as well as an introduction to professional literature. The student is required to take all screening tests for admission to the teacher education program, as well as completing application forms.

EDUC 134. Principles of Christian Education

2 hours

An overview of the purposes, administrative organizations and operations of school systems, identified as Christian in purpose, with particular emphasis on the Seventh-day Adventist educational system.

Students taking Education courses numbered 200 and above must have credit for EDUC 125 and 134 and be admitted to the Teacher Education program. Exceptions may be granted by permission of the Department of Education chairman.

EDUC 217. Psychological Foundations of Education (F-1)

3 hours

Prerequisite: Admission to Teacher Education or permission of the Department of Education chairman.

A study of the processes of human growth, development, and learning, joined to the practical application of this knowledge to teaching. Observation and analysis of appropriate child and adolescent behaviors.

EDUC 230. Elementary Methods in Curriculum and Instruction: Art

2 hours

Prerequisite: Admission to Teacher Education

A study of the aims, philosophy, and methods of teaching art on the various levels of the elementary school. Observation and participation in art activities with elementary students will be scheduled.

EDUC 231. Elementary Methods in Curriculum and Instruction: Music

2 hours

Prerequisite: Admission to Teacher Education, MUCT 100 (or permission of instructor) or MUHL 115.

A course designed to prepare teachers to direct the music activities in the elementary classroom. The content includes appreciation, singing, playing, and rhythmic activities with attention to current methods including Orff, Kodaly, and movement education. Observation and participation in the music program of the elementary school is required.

EDUC 240. Education for Exceptional Children and Youth 2 hours

Prerequisite: Admission to Teacher Education.

A course in the education of exceptional children in the regular classroom. It includes a study of the wide range of factors contributing to the exceptionality, the identification of exceptional children and youth by the classroom teacher and the consequent classroom implications. Observation and analysis of appropriate child and adolescent behaviors.

EDUC 250. Computers in the Classroom (G-2) 2 hours

Prerequisite: Admission to Teacher Education.

The course is an introduction to the use and evaluation of computers in the elementary and secondary classroom. Experience and evaluation will be given to a wide range of educational software such as records, gradebooks, word processing, accounts, and computer-assisted instruction. Observation and analysis of appropriate child and adolescent behaviors.

EDUC 332. Teaching of Reading 2 hours

Prerequisite: Admission to Teacher Education.

Survey of the materials and methods used in teaching reading in the elementary grades. It emphasizes the approaches to teaching reading including phonics instruction. The course involves approximately three hours of supervised practicum along with one hour of lecture each week.

EDUC 333. Developmental Reading (W) 2 hours

Prerequisite: EDUC 332 and Admission to Teacher Education.

A detailed study of the development of vocabulary, comprehension, and study/reference skills in the elementary grades. Causes of reading problems, assessment procedures, and organization of a sound reading program are stressed. (Spring and Summers on demand)

EDUC 355. Administrative and Personnel Work of Deans 2 hours

A basic professional course in the administration of the school home. (Offered on demand.)

EDUC 356. Tests and Measurements 2 hours

Prerequisite: Admission to Teacher Education or permission of the department chairman.

An evaluation of classroom learning and teacher-made tests as well as an overview of selected ability, achievement, interest, and personality tests. Principles of effective test construction and selection are studied, particularly as they apply to sampling, validity, reliability, and norming. Observation and analysis of appropriate child and adolescent behaviors.

EDUC 415. Secondary School Homes Practicum 2 hours

Prerequisite: EDUC 355.

This course is designed to provide resident experience in secondary school home administration under the supervision of a successful dean. Usually taken concurrently with student teaching.

EDUC 426. Kindergarten Methods **3 hours**

Prerequisites: EDUC 125, 134, 217, 240 and admission to Teacher Education.

Designed to give the student an understanding of administration, program planning, materials, and strategies for teaching in preschool. Emphasis is given to application of the principles of child development and learning to promote harmonious physical, mental, social, and emotional growth. Observation and participation required.

EDUC 427. Current Issues in Education (F-1), (W) **2 hours**

Prerequisite: Admission to Teacher Education.

An analysis of social and philosophical forces influencing American education today, with special emphasis on the schools as social institutions. (Not open to students who already have credit for EDUC 425.)

EDUC 432. Reading in the Secondary School **2 hours**

Prerequisite: Admission to Teacher Education.

This course will help teachers focus on those reading skills essential for the needs of secondary school pupils. It will include the teaching of reading in the content areas of one's major field, the program elements with procedures and processes involved along with their classroom applications. (Fall)

EDUC 437. Curriculum and General Methods, Grades 7-12 **2 hours**

Prerequisite: Admission to Teacher Education.

This course will include the secondary curriculum content—factors that influence change, the most important current practices, and critical curriculum issues facing educators today. It will provide general knowledge of current teaching methods, strategies of learning, and evaluation procedures.

EDUC 438. Special Methods of Teaching, Grades 7-12 **2 hours**

Prerequisite: Admission to Teacher Education. Courses EDUC 437 and EDUC 438 comprise a block and should be taken the same semester.

Student must have completed fifteen semester hours in the teaching area to qualify for admission.

The areas which offer methods courses are: Art, Bible, Business (Office Administration), English, Foreign Language, Health and Physical Education, History, Home Economics, Mathematics, Music, Science (Biology, Chemistry, and Physics).

The course will be offered the first part of that semester designated by the student's major department. The class will meet four class periods per week. Directed observation in selected schools and attendance at local professional meetings are considered part of this course.

Among the student's responsibilities will be the collection and organization of a file of teaching materials, the preparation of lesson plans, and evaluation of textbooks. Directed observation in selected schools and attendance at selected local professional meetings are considered a part of the course.

EDUC 443. Classroom Competencies **3 hours**

Prerequisite: Admission to Teacher Education and completion of at least two upper division methods courses.

This course provides opportunity for the student to develop skills and knowledge related to concepts of classroom organization and management,

audio-visual aids and techniques, discipline, public relations and ethics. Although all school settings will be considered, emphasis will be given to small schools. Classroom experience may be required.

EDUC 453. Mathematics Methods in the Elementary School 2 hours

Prerequisites: EDUC 125, 134, 217, 240 and admission to Teacher Education. Includes curriculum organization, materials, methods, and instructional aids with emphasis on multi-grade classrooms. Attention is given to the sequential skill development and to changes in the mathematical contents, technology and pedagogy. Observation and micro-teaching required.

EDUC 454. Science and Health Methods in the Elementary School 2 hours

Prerequisites: EDUC 125, 134, 217, 240 and admission to Teacher Education. Includes curriculum organization, methods, materials and equipment with emphasis on multi-grade classrooms. Techniques and materials are examined using basic principles of the scientific method. Observation and micro-teaching required. Two-day field trip is required. A lab fee is charged.

EDUC 455. Bible Methods in the Elementary School 2 hours

Prerequisites: EDUC 125, 134, 217, 240 and admission to Teacher Education. A course to develop teaching objectives, materials, and strategies in Biblical education with emphasis on the Christ-centered curriculum and integration of faith and learning. Special attention will be given to multi-grade classrooms. Observation and micro-teaching required.

EDUC 456. Language Arts Methods in the Elementary School 2 hours

Prerequisites: EDUC 125, 134, 217, 240 and admission to Teacher Education. Curriculum organization, methods, materials and instructional aids with emphasis on multi-grade classrooms. Strategies for instruction in writing, spelling, grammar, literature and composition are developed. Observation and micro-teaching required.

EDUC 457. Social Studies Methods in the Elementary School 2 hours

Prerequisites: EDUC 125, 134, 217, 240 and admission to Teacher Education. A course to develop teaching objectives, instructional strategies, materials and methods when integrating social studies, geography and the worldwide mission of the church. Special attention will be given to multi-grade classrooms. Observation and micro-teaching required.

EDUC 465. Pre-Session Student Teaching 2 hours

Prerequisites: Admission to Professional Semester. This course is offered for qualified students needing experience in the "start-up" dynamics of elementary and secondary programs. It involves 80 clock hours of on-site work with a qualified supervising teacher for one week prior to the fall semester through the first week of school. In consultation with the director of practice teaching, students are required to arrange for their own placement and submit a course application to the Education department office by May 1.

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EDUC 466. Student Teaching, Kindergarten **4 hours**

Prerequisites: EDUC 426 and Admission to Professional Semester.

This course is offered the first half of each semester and is available during the summer term to teachers with previous experience if suitable classes can be found.

EDUC 467. Student Teaching, 1-8 **8 hours**

Prerequisite: Admission to Professional Semester.

This course is offered each semester and is available during the summer term to teachers with previous experience. The student will be assigned a half-day each week of classroom observation and participation, as well as a weekly seminar, during the first part of the semester. Each student will complete ten weeks of full-time practice teaching. A weekly seminar is held in the first nine weeks of the semester.

Ten full weeks of the semester will be used for full-time student teaching in on-campus or selected off-campus elementary schools. Group conferences of two periods each week will be scheduled. A minimum of two hours credit must be earned in residence.

Student teachers are expected to provide their own transportation to their teaching centers and to follow the school calendars where they are assigned.

EDUC 468. Student Teaching, Grades 7-12 **8 hours**

Prerequisite: EDUC 217, 437, 438, and admission to professional semester. Music majors must have completed MUED 439.

This course is offered each semester and the summer session in selected areas. The student teachers will be assigned to the cooperating teacher near the beginning of the semester and will be expected to spend a minimum of three hours per week in observation and participation, as well as a weekly seminar during the first part of the semester. These hours will count toward the required student teaching allotment. Ten weeks of full-time directed observation, participation and full-day classroom teaching are required in on-campus or selected off-campus secondary schools. Conferences of two class periods *each week* will be scheduled.

A minimum of two hours credit must be earned in residence by degree candidates. Student teachers are expected to provide their own transportation to their teaching centers and to follow the school calendars where they are assigned.

EDUC 475. Workshop in Education (Methodology) **1-3 hours**

Experienced teachers are given opportunity to work under supervision on curriculum problems. Credit is also available for preservice students as an elective.

EDUC 485. Workshop in Education (Content) **1-3 hours**

Experienced teachers are given opportunity to develop new skills and gather new facts in content fields at various levels. Credit is also available for preservice students as an elective.

EDUC 295/495. Directed Study **1-2 hours**

Prerequisite: Admission to Teacher Education.

This course permits the advanced student with adequate preparation to pursue independent study in special fields.

(F-1), (W) See pages 15-18 for explanation of General Education requirements.

PSYCHOLOGY

- PSYC 124. Introduction to Psychology (F-1)** 3 hours
A beginning course in the basic principles and concepts of psychology. Special attention given to the structure and function of the brain and nervous system. Recommended as a preliminary to other courses in the field.
- PSYC 128. Developmental Psychology (F-1)** 3 hours
A study of life from prenatal through the adult years. Emphasis is placed on the emotional, social, physical, motor, and psychological development of the individual.
- PSYC 217. Educational Psychology (F-1)** 3 hours
A study of the processes of human growth, development, and learning, joined to the practical application of this knowledge to teaching. (Credit not permitted if EDUC 217 has been taken.)
- PSYC 224. Social Psychology (F-1)** 3 hours
A study of human behavior as affected by group living. Dynamics of groups, social roles, communication, and mass behavior are focuses of consideration. Credit applicable for either psychology or sociology emphasis, but not for both.
- PSYC 233. Human Sexuality (F-1 or 2)** 3 hours
A study of human sexual behavior, relationships, and values as reflected in the Christian cultural setting.
- PSYC 240. Psychology of Exceptional Children and Youth** 2 hours
A survey of exceptional children and youth. It includes a study of the wide range of factors contributing to the exceptionality, the identification of exceptional children and youth, and the educational and caretaking consequences.
- PSYC 315. Abnormal Psychology (F-1)** 3 hours
Prerequisite: PSYC 124 or 128.
A study of the etiology of pathological behavior and the factors of good adjustment and mental health.
- PSYC 326. Physiological Psychology** 3 hours
Prerequisite: Three hours in Biology.
This course focuses on the physiological substrates of behavior. Specific attention is given to the physiological basis of learning and motivation, sensation, emotion, neural encoding, and sleep. Further analysis of the structural and functional organization of the brain and nervous system. (Taught in alternate years)
- PSYC 349. Aging and Society (F-1)** 3 hours
(See SOCI 349. Aging and Society (F-1))
- PSYC 355. Organizational Behavior** 3 hours
Prerequisite: BUAD 334.
(See BUAD 355 under Business Administration Department listing.)

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PSYC 356. Tests and Measurements **3 hours**

An evaluation of classroom learning and teacher-made tests as well as an overview of selected ability, achievement, interest, and personality tests. Principles of effective test construction and selection are studied, particularly as they apply to sampling, validity, reliability, and norming. (Credit not permitted if EDUC 356 has been taken.)

PSYC 367. Adolescent Psychology (F-1) **2 hours**

The determinants and implications of behavioral characteristics and developmental patterns during adolescence. Content will include the psychological and social dynamics underlying the attempted resolution of crises and tasks specific to adolescents in modern society. (Taught in alternate years)

PSYC 377. Fundamentals of Counseling (F-1) (W) **3 hours**

Recommended: One course in Psychology.

This is an introduction to the major theories and practices of individual counseling. The dynamics of the helping relationship are analyzed.

PSYC 384. Experimental Psychology (W) **3 hours**

Prerequisite: MATH 215.

The application of relational and experimental research designs to psychology. A semester research proposal and completed project is expected of each student. One class period per week is normally devoted to computer-aided analyses of simulations and practice exercises.

PSYC 415. History and Systems of Psychology (F-1) (W) **3 hours**

Prerequisite: PSYC 124.

Philosophical and historical backgrounds of psychology leading to a consideration of contemporary schools and systems of psychology.

PSYC 465. Topics in Psychology (F-1) **3 hours**

Selected topics in psychology as chosen from such areas as: group dynamics, psychological assessment, individual differences, psychology of women, sensation and perception, etc. This course may be repeated for credit with an appropriate change in topics.

PSYC 495. Directed Study (F-1) (W) **1 hour**

Prerequisite: PSYC 384.

Completion of an experimental project under the direction of a psychology instructor. Students are responsible for developing appropriate research options.

Chairman: Lawrence Hanson

Faculty: John Durichek, Henry Kuhlman

Advisory Council: Shane Blood, R. W. Fanselau, Leo Parks

Southern College offers the first two years of a baccalaureate degree in engineering. Upon completing the two-year engineering studies program, students transfer to the Walla Walla College School of Engineering, with which Southern College is affiliated, for the final two years. Southern College awards an Associate of Science degree in Engineering Studies. Walla Walla College, located in Washington State, awards a Bachelor of Science in Engineering degree with concentrations in civil, electrical, and mechanical engineering and a pre-professional Bachelor of Science degree in bioengineering.

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

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

PROGRAM IN ENGINEERING STUDIES

Major (A.S.): Thirty-one hours consisting of ENGR 149, 150, 211, 212; MATH 181, 182, 218; PHYS 211, 212, 213, 214, 311, 312. Required cognates: CHEM 151, 152; CPTR 131 or 218; ENGL 102.

TYPICAL SEQUENCE OF COURSES FOR A.S. ENGINEERING STUDIES

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
CHEM 151-152	General Chemistry	4	4	ENGR 211-212	Engineering Mechanics	3	3
ENGL 101-102	College Composition	3	3	MATH 218	Calculus III	3	
ENGR 149	Engineering Graphics	2		MATH 315	Differential Equations	3	3
ENGR 150	Computer Graphics		3	PHYS 211-212	General Physics	3	3
MATH 181,182	Calculus I, II	4	3	PHYS 213-214	General Physics Lab	1	1
RELB 125	Life & Teachings/Jesus**	3		PHYS 311-312	Gen Phys Calc Applic		2
HIST 174	Survey of Civilization*		3	ENGR 214	Circuit Analysis		3
	Area G, P.E. Activity	1	1	CPTR LANG	FORTRAN or Pascal	3	
		17	17	SOCI 223	Marriage and Family*		2
				ENGL 214	Survey of American Lit*		3
				RELT 373	Christian Ethics*		3
						18	18

* With the approval of the engineering adviser, certain other general education courses may be substituted for these courses.

NOTE: The above sequence of courses is demanding and difficult to complete in four semesters. Most students are advised to carry sixteen or fewer credits per semester. This can be done and the sequence completed in two years if some courses are taken during summer sessions.

(See pages 12, 13 and 15-18 for general degree and general education requirements.)

The total number of hours for the A.S. degree in engineering studies is sixty-four. The suggested sequence of courses given above meets all major and general education requirements. In addition, it includes two courses, ENGR 214 and MATH 317, which are not required for the A.S. degree, but are required for baccalaureate engineering degrees. With their inclusion the suggested sequence parallels the first two years of engineering studies at Walla Walla College.

Students who plan to continue their education at an engineering school other than Walla Walla College should take that school's catalog to the engineering advisor for guidance in selecting general education courses.

ENGINEERING COURSES

ENGR 149. Mechanical Drawing

2 hours

A basic course in drafting including proper use of instruments, orthographic projection, surface development, sectioning, pictorial representation, dimensional drawings. Six periods of laboratory per week. Instruments cost approximately \$40. (Fall)

ENGR 150. Computer-Aided Drafting

3 hours

Prerequisite: ENGR 149.

An introduction to computer-aided drafting. The computer programs Auto Cad and Cad Key are used in drawing and design in the areas of mechanics, architecture, and electricity. One period of lecture and six periods of laboratory per week. (Spring)

ENGR 211. Engineering Mechanics: Statics **3 hours**

Pre- or corequisites: MATH 182, PHYS 211, 213.
Two- and three-dimensional equilibria employing vector algebra; friction; centroids and center of mass, virtual work, and moments of inertia. (Fall)

ENGR 212. Engineering Mechanics: Dynamics **3 hours**

Pre- or corequisites: MATH 218, PHYS 212, 214, 311, 312.
One- and two-dimensional kinetics and kinematics of rigid bodies by vector calculus; dynamics of rotation, translation and plane motion; relative motion; work and energy; impulse and momentum. (Spring)

ENGR 214. Circuit Analysis **3 hours**

Pre- or corequisites: MATH 218, PHYS 212, 214, 311, 312.
Circuit variables and parameters; Kirchoff's laws and circuit solution; sinusoidal steady-state; phasors and impedance; frequency characteristics; Thevenin's theorem and maximum power theorem; transients and complete response. Laboratory covers basic electrical measurements using DC and AC meters, potentiometers, recorders, and bridges. (Spring)

**TYPICAL SEQUENCE OF COURSES FOR
B.A. ENGLISH
(non-teaching)**

Year	Course	Prerequisites
1	ENGL 101	
1	ENGL 102	
1	ENGL 103	
1	ENGL 104	
2	ENGL 201	ENGL 101, 102, 103, 104
2	ENGL 202	ENGL 101, 102, 103, 104
2	ENGL 203	ENGL 101, 102, 103, 104
2	ENGL 204	ENGL 101, 102, 103, 104
3	ENGL 301	ENGL 201, 202, 203, 204
3	ENGL 302	ENGL 201, 202, 203, 204
3	ENGL 303	ENGL 201, 202, 203, 204
3	ENGL 304	ENGL 201, 202, 203, 204
4	ENGL 401	ENGL 301, 302, 303, 304
4	ENGL 402	ENGL 301, 302, 303, 304
4	ENGL 403	ENGL 301, 302, 303, 304
4	ENGL 404	ENGL 301, 302, 303, 304

ENGLISH AND SPEECH

Chairman: David C. Smith

Faculty: Ann Clark, Don Dick, Jan Haluska, John Keyes, Wilma McClarty, Lynn Sauls

Adjunct Faculty: Pam Harris, Dee Langford, Helen Pyke

Advisory Council: Delmer Davis, Pam Harris, Carolyn Kujawa, Evelyn Lindberg, Eilleen Meagher, Jodi Ruf

The English and Speech Department offers two categories of classes that view man's search for truth and its most convincing expression through a Christian perspective. *Language and speech* courses aid students in developing ease, confidence, and competence in the art of effective communication and in acquiring knowledge of the science of language; *literature* courses develop the ability to discern and appreciate the best literary works.

Students majoring in English must meet the specific requirements of the English Department (below) and the General Education program (pages 15-18). For English, intermediate foreign language is required.

PROGRAMS IN ENGLISH LANGUAGE AND LITERATURE

Major (B.A.): Thirty-one hours excluding Basic Writing and College Composition, but including ENGL 215, 216, 218, 314, 315, and 335; plus six hours from ENGL 214, 333, or 334; plus nine hours from ENGL 336, 337, 338, 444, or 445 (445 is required for teaching majors). Required cognates: HIST 374, HMNT 205, intermediate foreign language.

TYPICAL SEQUENCE OF COURSES FOR B.A. ENGLISH (Non-Teaching)

	YEAR 1		YEAR 2		
		Semester 1st 2nd		Semester 1st 2nd	
ENGL 101-102	College Composition	3 3	HMNT 205	Arts & Ideas	3
	Area C-1, History	3	ENGL 216	Approaches to Lit	3
	Area D-1, Intern For Lang	3 3	ENGL 218	Prin of Grammar	2
	Area B, Religion	3	ENGL 215	Survey of English Lit	3
	Area E, Natural Sci	3		Area A-2, Mathematics	0-3
	Area G-3, Rec Skills	1		Area F, Behav/Fam/Hlth Sc	3 2
	Area G-2, Practical Skills			Area B, Religion	3
	(Typing suggested)	3		Area E, Natural Sci	3
	Minor or Elective	3 3		Minor or Elective	7-4 2
		15 16			15 16

YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
ENGL 335	Biblical Literature	3		Area D, UD Literature		6	
ENGL 315	Intro to Ling		2	Area C-2, Pol Sci/Econ		3	
ENGL 314	Creative Writing	3		Area G-1, Creative Skills			
HIST 374	History of England	3		OR		2	
ENGL 214	American Lit		3	Area G-3, Rec Skills			
	Area B, Religion	3		Area B, Religion (U.D.)		3	
	Area D, UD Literature	3	3	Minor or Elective		1	16
	Minor or Elective	3	5			15	16
		15	16				

NOTE: Students planning to obtain educational certification will need to include the required professional education courses and additional general education requirements in their program.

See pages 12, 13 and 15-18 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

TYPICAL SEQUENCE OF COURSES FOR B.A. ENGLISH (Teaching Major)

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
ENGL 101-102	College Composition	3	3	HMNT 205	Arts and Ideas		3
	Area C-1, History		3	ENGL 216	Approaches to Literature	3	
	Area D-1, Intern For Lang	3	3	ENGL 218	Principles of Grammar	2	
RELT 138	Adventist Heritage	3		ENGL 315	Introduction to Linguistics		2
	Area E, Natural Sci		3	ENGL 215	Survey of English Literature		3
	Area G-3, Rec Skills		1	RELT 225	Christian Beliefs	3	
EDUC 125	Foundations of Education	3			Area A-2, Mathematics	3	
EDUC 134	Prin of Christian Education		2	ENGL 214	Survey of American Literature		3
SOCI 223	Marriage and the Family	2			Area E, Natural Science		3
HLED 173	Health and Life	2		EDUC 217	Psychol Found of Education		3
		16	15	EDUC 240	Ed for Except Chil and Youth	2	
					Area G-3, Recreational Skills	1	
					Minor	3	
						17*	17
YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
ENGL 335	Biblical Literature	3		ENGL 445	World Literature	3	
EDUC 332	Reading		2	EDUC 432	Area C-2, Pol Sci/Econ	3	
OR					Reading in the Sec School	2	
EDUC 333					Area G-3, Recreational Skills	1	
ENGL 314	Creative Writing		3		Area B, Religion (RELB/RELT)	3	
HIST 374	History of England	3			Minor	6	
ENGL 333				EDUC 356	Tests and Measurements		2
OR	American Literature	3		EDUC 427	Current Issues in Education		2
ENGL 334				EDUC 437	Curriculum and Gen Methods		2
RELB	Upper Division Religion	3		EDUC 438	Special Methods, Grades 7-12		2
	(2) Upper Division Literature		6	EDUC 468	Student Teaching, Grades 7-12		8
LIBR 425	Library Mat for Young Adults		3			18	16
	Minor	6	3				
		18*	17*				

* Any amount over 16 hours is considered an overload. Students electing a teaching major should consider at least one summer session.

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Minor: Nineteen hours, excluding Basic Writing and College Composition, including ENGL 218, 315; ENGL 214 or 333 or 334; ENGL 215, 314; six hours of English electives to include one additional literature class. Six hours must be upper division.

ENGLISH LANGUAGE AND COMPOSITION

ENGL 099. Basic Writing **3 hours**

Prerequisite: Students whose first language is not English must have a score of 90 or above on the Michigan English Language Institute Test.

Focuses on development of those writing skills necessary for successful entry into ENGL 101. Students whose English ACT score is 12 or below are required to register for this class. Students successfully completing this course will earn three institutional elective credits and may enroll in ENGL 101. This course does not count toward an English major or minor. (Fall)

ENGL 101-102. College Composition (A-1) **3,3 hours**

ENGL 101 is prerequisite to ENGL 102.

A two-semester course focusing strongly on the writing process, especially revision. ENGL 101 emphasizes specific writing skills and principles which readily apply to most writing tasks. ENGL 102 reinforces the proficiencies developed in ENGL 101 while focusing on rhetorical and reasoning skills which apply to various persuasive and research writing activities. This course does not count toward an English major or minor. (Fall, Spring, Summer)

ENGL 218. Principles of Grammar **2 hours**

Prerequisite: ENGL 101.

A detailed survey of descriptive grammar as it pertains to parts of speech, sentence structure, punctuation, and usage. Designed to aid any student who wishes to strengthen his skills in grammar analysis, it is also especially helpful for prospective teachers and writers. (Fall)

ENGL 314. Creative Writing (G-1), (W) **3 hours**

Prerequisite: Three hours of literature or permission of instructor.

A study of the principles, techniques, and kinds of personalized writing, providing the student with opportunity to develop his own style and to find possible markets for his manuscripts that may be worthy of publication. (Spring)

ENGL 315. Introduction to Linguistics **2 hours**

Prerequisite: ENGL 218.

Provides a background in the history of the English language, etymology and the processes of word formation, dialectology and syntax analyses, and relates these learnings to the teaching of contemporary English. (Spring)

LITERATURE

ENGL 214. Survey of American Literature (D-2) 3 hours

Prerequisite: ENGL 102.

A study of representative selections from major American authors, colonial through modern, with emphasis on ideas, attitudes, and trends having individual, national, and universal interest. Major writers will include, among others, Cooper, Hawthorne, Twain, Frost, and Hemingway. (Spring)

ENGL 215. Survey of English Literature (D-2) 3 hours

Prerequisite: ENGL 102.

A study of representative selections by British writers, with special emphasis on the author's philosophy as compared or contrasted with Bible-based thinking, and a review of literary trends and influences from the late Roman period to the present. Among writers receiving strong attention are Chaucer, Shakespeare, Donne, Milton, Wordsworth. (Fall, Spring)

ENGL 216. Approaches to Literature (D-2) 3 hours

Prerequisite: ENGL 102.

A study of what recognized poets, short-story writers, dramatists, and novelists have to say about the human condition, emphasizing the various approaches to literature and including an introduction to literary terms and critical evaluation.

ENGL 333. American Literature From Colonial Through Romantic Periods (D-2), (W) 3 hours

A reasonably comprehensive, chronological study of the works of major American writers with special emphasis on Bradford, Taylor, Franklin, Edwards, Irving, Cooper, Poe, Emerson, Thoreau, Hawthorne, Melville, Longfellow, and Whitman. (Fall, odd years)

ENGL 334. American Literature From Realism to the Present (D-2), (W) 3 hours

A continuation of ENGL 333, from the mid-nineteenth century through some of the more recent writers, including Dickinson, Twain, James, Crane, Robinson, Frost, Fitzgerald, Hemingway, Faulkner, Williams, Warren, and Bellow. (Fall, even years)

ENGL 335. Biblical Literature (D-2), (W) 3 hours

A study of some of the literary masterpieces of the Bible in English translation. The course applies techniques of oral interpretation and literary analysis (including emphasis upon uses of poetic and rhetorical devices and of figures of speech) to forms of literature such as address, proverb, parable, poem, short story, epistle, and apocalypse. (Fall)

ENGL 336. Medieval and Renaissance Literature (D-2), (W) 3 hours

From Chaucer through Shakespeare, the men and their times. Readings in *Canterbury Tales*, Middle English romance, allegory, play, and meditation in translation; in sixteenth-century prose, Elizabethan poetry and dramatic literature, with study of genre, conventions, and trends. Specific attention to moral and religious issues. (Spring, odd years)

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ENGL 337. Nineteenth-Century British Literature (D-2), (W) 3 hours

A study of British writers from the Romantic or Victorian periods (1785-1901), with special emphasis upon Blake, Wordsworth, Coleridge, Byron, Shelley, Keats, Austen, Tennyson, Dickens, Arnold, Browning, Carlyle, and Wilde. (Spring, even years)

ENGL 338. Twentieth-Century Writers (D-2), (W) 3 hours

A study of twentieth-century writers with an emphasis on American and/or British works, although world literature in translation may be included. (Spring)

ENGL 444. Restoration and Eighteenth-Century Literature (D-2), (W) 3 hours

English life and letters in ferment through the Enlightenment and the decline of Neo-classicism: Milton, Dryden, Swift, Pope, Johnson. Special attention to moral and religious issues and trends. (Spring, even years)

ENGL 445. World Literature (D-2), (W) 3 hours

Beginning with the three great epics which underlie the literature of the Western World—the *Iliad*, *The Odyssey*, and *The Book of Job*—the class will consider a range of classical and medieval works from the Greeks to the Italian Renaissance. Collateral emphasis will be on enhancing the student's ability to differentiate the pagan from the Christian in the thematic mix of individual works. (Fall)

ENGL 465. Topics in English (W) 3 hours

Selected topics in English presented in a classroom setting. Subjects covered will determine how the class applies to the major. This course may be repeated for credit.

ENGL 295/495. Directed Study 1-3 hours

The content of this course will be adjusted to meet the particular needs of the student. This course also includes credit offered by the English Department on directed study tours. Open only to English majors or minors with the approval of the department chairman in consultation with the prospective instructor. This course may be repeated for credit.

EDUCATION

EDUC 438. Methods of Teaching English 2 hours

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials of instruction, planning, testing, and evaluating student performances; the survey and evaluation of textbooks is also included. Four lectures each week of the first half of the semester. (Spring)

(A-1), (D-2), (G-1), (W) See pages 15-18 for explanation of General Education requirements.

SPEECH

SPCH 135. Introduction to Public Speaking (D-4) 3 hours

Preparation and presentation of short informative and persuasive speeches with emphasis on the selection and organization of material, reasoning, methods of securing interest, persuasive strategies, and the elements of delivery. (Fall, Spring, Summer)

SPCH 136. Interpersonal Communication (D-4) 3 hours

Introducing the process of informal transactional communication, this course emphasizes a quality of communication rather than a communication setting, namely personal involvement through emphatic listening and self-disclosure. The course utilizes readings and learning activities to help students understand the theory of interpersonal communication and apply it in realistic transactions.

SPCH 236. Oral Interpretation (D-4) 3 hours

Theory and practice in the art of conveying to others the full meaning of selections in literature of various types via reading and interpreting orally.

SPCH 465. Topics 3 hours

Selected topics in speech and related areas presented in a classroom setting. Subjects covered will determine general education credit status. This course may be repeated for credit.

SPCH 295/495. Directed Study 1-3 hours

The content of this course will be adjusted to meet the particular needs of the student. Open only to students approved by the department chairman in consultation with the prospective instructor. This course may be repeated for credit.

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YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
HLED 314	Kinesiology	3		EDUC 356	Tests & Measurements*	2	
HLED 315	Physiology of Exercise	4		EDUC 437	General Methods*	2	
PETH 364	Princ & Admin of PE	3		EDUC 438	Special Methods in PE*	2	
PETH 363	Intro to Meas & Research	3		EDUC 468	Student Teaching*	6	
EDUC 432	Reading in Sec Sch*	2		EDUC 427	Current Issues in Educ*	2	
FDNT 125	Nutrition	3		EDUC 240	Educ of Excep Child*	2	
PEAC 254	Lifesaving	1		HLED 473	Health Education	2	
PEAC 255	Water Safety Instructor	1		PETH 374	Motor Learning	2	
PETH 474	Psyc & Soc of Sports	2		PETH 463	PE in Elem School	2	
	Area B-1, Bibl Studies*	3			Directed Study in PE	1	
	Area C-2, Pol Sci/Econ	3			Area B-1, Bibl Studies* (U.D.)	3	
	Area E-2, E-3 or E-4, Sci	3			Area G-1, Creative Skills		
					OR	1	
		16	15		Area G-2, Practical Skills		
					Elective	3	
						14	16

* Secondary Certificate requirements.

See pages 12, 13 and 15-18 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Minor: Eighteen hours including PETH 121, 122, 221, 222, 265, 266, and six hours of upper division, including PETH 364.

The student must apply to the Department of Education for admission to the Teacher Education Program and the professional semester before the end of the sophomore and junior years, respectively.

PROGRAM IN HEALTH SCIENCE

Major (B.S.): Forty hours including HLED 173, 314, 315, 373, 470, 473; PETH 374, 495; PEAC 125; CHEM 151-152; MATH 215; BIOL 101, 102, 125; FDNT 125.

TYPICAL SEQUENCE OF COURSES FOR B.S. HEALTH SCIENCE

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
ENGL 101-102	College Composition	3	3	CHEM 151-152	General Chemistry	4	4
BIOL 101-102	Anatomy & Physiology	3	3	RELT 138	Adventist Heritage	3	
SOCI 223	Marriage & the Family	2		HLED 173	Health and Life		2
	Area B-2, Religion	3		MATH 215	Statistics		3
	Area C-1, History	3	3	PEAC 125	Conditioning		1
	Area A-2, Mathematics	3-0			Area D-2, Literature		
	Elective	4-7	2		OR	3	3
		16	16		Area D-3, Fine Arts Appr		
					Area D, Lang/Lit/Fine Arts		
					(D-4 Speech suggested)	3	
					Area G, Skills		2
					Elective	2	2
						16	16

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	YEAR 3		Semester			YEAR 4		Semester	
			1st	2nd				1st	2nd
HLED 314	Kinesiology		3		HLED 470	Current Issues in Hlth			2
HLED 315	Phys of Exercise			3	HLED 373	Care & Prev of Ath Inj			2
FDNT 125	Nutrition		3		HLED 473	Health Education			2
PETH 374	Motor Learning			2		Area B, Religion (U.D.)			3
BIOL 125	Microbiology		3			Area G, Skills			1
	Area B-1, Bibl Studies			3		Directed Study in PE			1
	Area C-2, Pol Sci/Econ			3		Elective			9
	Area G, Skills			2					10
	Approved elec in major			3					15
	Elective			1					15
				<u>1</u>					
				15					15

See pages 12, 13 and 15-18 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

GENERAL EDUCATION ACTIVITY COURSES

PEAC courses have optional pass/fail grades available.

PEAC 123. Volleyball (G-3) 1 hour

Development of the skills of passing, setting, serving, and spiking necessary in participation in power volleyball. (Fall)

PEAC 124. Basketball (G-3) 1 hour

Individual skills and team concepts are developed that may be used in competition and leisure play. (Spring)

PEAC 125. Conditioning (G-3) 1 hour

A study of basic fitness training and aerobic principles in conjunction with a personalized long-range conditioning program for disease prevention and health maintenance. May be repeated for credit. (Fall, Spring)

PEAC 126. Softball (G-3) 1 hour

Fundamental skills in hitting, bunting, sliding, throwing, running, and fielding, incorporated with softball facts, terminology, and team strategy. (Fall)

PEAC 131. Badminton (G-3) 1 hour

Strokes, rules, and playing situations included with physical conditioning for badminton. (Spring)

PEAC 133. Racquetball (G-3) 1 hour

Focus is given to basic skills, rules, and terminology so that the student can carry on successful play. (Fall, Spring)

PEAC 134. Basic Tennis (G-3) 1 hour

Emphasis in basic tennis skills including the forehand, backhand, and serve. (Fall)

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PEAC 136. Basic Golf (G-3) 1 hour

A basic course for the beginning golfer. Students must have their own golf clubs. Lab fee required. (Fall)

PEAC 137. Cycling (G-3) 1 hour

A course for the active cyclist emphasizing various types of cycling, cycling techniques, safe cycling, and maintenance. Students provide their own bicycles. (Fall)

PEAC 138. Intermediate Golf (G-3) 1 hour

Play on a variety of courses for the bogey golfer. Students must have their own golf clubs. Lab fee required. (Spring)

PEAC 139. Intermediate Tennis (G-3) 1 hour

For the advanced player. Emphasis is given to the advanced serve, volley, lobs, advanced ground strokes and playing strategy. Admission to class must be approved by instructor. (Fall)

PEAC 143. Basic Tumbling (G-3) 1 hour

Mat tumbling leading to gymnastic free-exercise routines in conjunction with acrosport exposure. (Spring)

PEAC 144. Basic Apparatus (G-3) 1 hour

Skill development on various gymnastic equipment such as the pommel horse, high bar, P-bars, rings, unevens, and balance beam. (Fall, Spring)

PEAC 151. Scuba Diving (G-3) 1 hour

Leads to basic certification by N.A.S.D.S. or N.A.U.I. Lab fee of \$98 charged in addition to tuition. (Fall, Spring)

PEAC 153. Basic Swimming (G-3) 1 hour

Development of beginning and intermediate swimming skills coupled with aquatic safety principles. (Fall, Spring, Summer)

PEAC 243. Tumbling Team (Gym-Masters) (G-3) 1 hour

A "variety show" team which emphasizes acrosport, sports acrobatics, gymnastics, physical fitness and health. Admission will be based on satisfactory performance of try-out requirements. (Fall, Spring)

PEAC 253. Intermediate Swimming (G-3) 1 hour

Review of swimming strokes, diving, and conditioning. (Fall, Spring)

PEAC 254. Lifesaving (G-3) 1 hour

Prerequisite: PEAC 253 or equivalent.

Leads to Red Cross Advanced Life Saving certification. (Spring)

PEAC 255. Water Safety Instructor (G-3) 1 hour

Prerequisite: PEAC 254 or equivalent.

Leads to Red Cross Water Safety Instructor certification. (Spring)

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PEAC 259. Special Activities (G-3) 1 hour

Courses with various structured content may be offered under this topic heading. Included are courses in water skiing, sailing, small craft, snow skiing, rock climbing, spelunking, aerobics, and sailplaning. This course may be repeated with the varying subject matter. Lab fees in addition to tuition are usually charged, by approximately \$50-\$160.

PEAC 261. Introduction to Recreation (G-3) 1 hour

A course designed to promote outdoor recreation and provide experience for those interested in preparing for different phases of camp life, outdoor living and activities. (Spring, Summer)

HEALTH EDUCATION

HLED 173. Health and Life (F-3) 2 hours

A study of current subjects vital to healthful living. Integrating healthful living and Christianity with today's scientific research. Not open to nursing students. (Fall, Spring, Summer)

HLED 203. Safety Education (F-3) 2 hours

The nature and causes of accidents with emphasis in teacher/pupil safety problem situations. CPR certificates issued to those successfully completing requirements. (Fall)

HLED 314. Kinesiology 3 hours

Prerequisite: BIOL 101, 102 or equivalent.

A study of the anatomical and mechanical variables influencing movement, including adaptive activities for the handicapped person. Historical impact of the leaders in physical education is covered. (Fall)

HLED 315. Physiology of Exercise (W) 4 hours

Prerequisite: BIOL 101-102 or equivalent.

Emphasizing the physiological effects of muscular exercise, aerobics, massed gymnastics, and physical conditioning. Significance of these effects for health and for skilled performance and prevention of disease. (Spring)

HLED 373. Care and Prevention of Athletic Injuries 2 hours

Prerequisite: HLED 314.

Investigations into the prevention, care, and proper management of injuries related to athletics. (Spring)

HLED 470. Current Issues in Health 2 hours

This is a seminar course designed to assist students in becoming knowledgeable regarding health issues of our time. Library research and class presentations are required. Discussion and problem solving are emphasized. A major part of the class focuses on the need of a spiritual component in establishing a healthful and balanced lifestyle. (Spring)

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HLED 473. Health Education

2 hours

Prerequisite: HLED 173 or HLED 470.

A study of the theoretical and scientific basis of health education with emphasis on the development and organization of the school health instruction program. (Spring, odd years)

PHYSICAL EDUCATION THEORY

PETH 121, 122. Professional Skills, Team Activities

2,2 hours

Development of professional skills including performance and teaching techniques for softball, football, volleyball, basketball, floor hockey, and soccer. For majors and minors only. (Fall, odd years; Spring, even years)

PETH 221, 222. Professional Skills, Individual Activities

2,2 hours

Development of professional skills including performance and teaching techniques for golf, tennis, badminton, racquetball, gymnastics, conditioning, track and field. Taught in alternate years for HPER majors and minors only. (Fall, even years; Spring, odd years)

PETH 265, 266. Officiating Sports Analysis

2,2 hours

An introduction to administration of and participation in the organization of officiating in team and individual recreational activities. (Fall, Spring)

PETH 363. An Introduction to Measurements and Research of Physical Education

3 hours

A survey of tests used in Physical Education and an introduction to statistical procedures for analyzing data and how it may be applied to research. History of physical education is also dealt with briefly. (Fall)

PETH 364. Principles and Administration of Physical Education and Recreation

3 hours

An integrated study of the principles and administrative concepts of Physical Education and Recreation with emphasis in management needs and skills that will enable a person to play and interact professionally. (Spring)

PETH 374. Motor Learning and Development

2 hours

A course of study designed to examine motor development and motor behavior as it relates to an individual's maturation process, with emphasis placed on implications for the physical educator. (Spring)

PETH 463. Physical Education in the Elementary School

2 hours

This course is designed primarily for elementary teachers, physical education majors and minors. Objectives for this course include: a comprehensive review of motor learning and development stages, methods and materials, graded activities in games and rhythmic activities, self-testing and safety measures. Observation and teaching of elementary school children will be scheduled. (Spring, alternate Summers)

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PETH 474. Psychology and Sociology of Sport 2 hours

An exploration of sport and its involving impact on American culture. Special attention is given to current issues in sport as they relate to the individual in society.

PETH 490. Senior Seminar (W) 2 hours

An exploration of philosophical and historical contributions to the profession. Discussion of current topics, issues, and research pertinent to the field and the interests of the students. Research and/or writing required as a portion of the class.

PETH 295/495. Directed Study (W) 1-3 hours

For Physical Education majors or minors only. Gives the student the opportunity to pursue knowledge in an area of interest related to health, PE, or recreation. Approval by Department Chairman required.

EDUCATION

EDUC 438. Methods of Teaching Health and Physical Education 2 hours

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials of instruction, planning, testing, and evaluating student performances. The first half of the first semester during the senior year. (Fall)

(F-3), (G-3), (W) See pages 15-18 for explanation of General Education requirements.

HISTORY

Chairman: Benjamin McArthur

Faculty: Douglas Morgan, Dennis Pettibone, Mark Peach (study leave)

History is the study of the human experience. It investigates mankind's ideas, institutions, and activities. In pursuing this investigation, history courses at Southern College emphasize the Christian view of humanity. This perspective recognizes both the potential and the limitation of human endeavor and thereby permits a broader comprehension of the past and a greater hope for the future.

Approval of study programs for history majors. Departmental approval is necessary for all programs. A student majoring in history must plan his entire study program with a member of the history faculty. Approval is then considered on an individual basis and is granted on the following conditions:

1. Compliance with graduation requirements as explained elsewhere in the CATALOG.
2. Fulfillment of the professional and individual needs of the student.
3. Embodiment of academic balance and continuity.

BACHELOR OF ARTS DEGREE IN HISTORY

Major: Thirty hours including HIST 154, 155; 174, 175; 499. Six hours of political science may apply to the major. The intermediate level of a foreign language is required. At least two courses are to be taken in each of the following areas:

Area I: American History, HIST 354, 355, 356, 357, 359; PLSC 254.

Area II: European History, HIST 374, 375, 386, 389; PLSC 389; either HIST 364 or 365.

TYPICAL SEQUENCE OF COURSES FOR B.A. HISTORY

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
HIST 154, 155	American History	3	3	HIST 174, 175	World Civilizations	3	3
ENGL 101-102	College Composition	3	3		Area B, Religion	3	
	Area B, Religion	3			Area E, Natural Sci	3	3
	Area A-2, Mathematics		0-3		Area G, Activity Skills	3	
	Area F, Behav/Fam/Hlth Sc	3	2		Area D, Lit/Fine Arts/Spch		3
	Elective				Minor or Elective		4
	OR	3	8-5		Area D, Inter For Lang	3	3
	Area D-1, Beg For Lang					15	16
		15	16				

YEAR 3	Semester		YEAR 4	Semester	
	1st	2nd		1st	2nd
Area B, Religion	3		HIST 499	Research Meth in Hist	3
Area C, UD History	3-6	3-6		Area B, Religion (U.D.)	3
Area G, Skills		2		Area C, UD History	3-6 3-6
Area G-3, Recreation Skill		1		Minor or Elective	6-3 13-10
Area C-2, Pol Sci/Econ	3				15 16
Minor or Elective	6-3	10-7			
	15	16			

See pages 12, 13 and 15-18 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

History as a preprofessional degree: A student majoring in history who plans to enter a professional school in an area such as medicine or law must present a balanced program of general education classes and electives that will support the professional objectives.

History as a preparation for teaching: A student majoring in history who plans to teach will automatically have the 24 semester hours required for certification in the area of the first teaching field. It is strongly recommended that the student also earn teaching credentials in a field outside of history. No specific supporting field is required but art, behavioral science, business, English, modern languages, and religion are recognized as intimately related to the study of history. A student may receive certification to teach history as a second area by completing a minor in history. See under Minor below. Since the entire second semester of the senior year is devoted to certification requirements, students earning teacher certification must finish all history classwork before reaching the final semester. Students applying for teacher certification must consult with the Education Department to draft a schedule of classes meeting certification requirements.

Before the end of the sophomore year the student must apply to the Department of Education for admission to the Teacher Education Program. Before the end of the junior year, the student must apply to the Department of Education for admission to the professional semester.

Minor: Eighteen hours including HIST 174, 175. The additional twelve hours will be chosen from remaining history courses, six hours of which must be upper division. A minimum of three hours must be chosen from each of the American and European areas. Three hours of political science may be taken in lieu of three hours of history. A student planning to minor in history in order to obtain a second teaching area for certification must take all eighteen hours in history and must include HIST 154, 155.

History Department tours: The Department of History regularly sponsors study tours to foreign countries and in the United States. The purpose of these tours is to provide students and other participants with an enhanced understanding of history and culture through a com-

bination of traditional lecture and reading with direct observation of historical sites. Academic activities connected with the tours require students to spend an amount of time equal to that expected in a regular classroom setting. Preparatory meetings and assigned reading are included in this computation. Course credit is offered under HIST 295/495 Directed Study in History. Cost of the tours includes charge for academic credit.

History as general education: Freshman and sophomore students earning general education credit in history should take courses from the 100 and 200 level. Junior and senior students meeting general education requirements in history should select courses from the 300 and 400 level.

HISTORY

HIST 154, 155. American History and Institutions (C-1) 3,3 hours

An introductory survey of the nation from colonial times to the present. The development of its politics, government and social institutions is covered in each semester of the sequence. This course is recommended as general education for freshmen and sophomores. (Fall, Spring, Summer)

HIST 174, 175. World Civilizations (C-1) 3,3 hours

A study of the development of Western and non-Western culture and government, emphasizing the evolution of European society and its interaction with non-European civilizations. This course is recommended as general education for freshmen and sophomores.

HIST 354. Latin America (C-1), (W) 3 hours

A survey of Latin America offering brief backgrounds from the colonial, independence, and early national periods, but focusing on twentieth-century trends in selected republics.

HIST 355. History of the South (C-1), (W) 3 hours

A study of the Old South from the discovery through the war between the states, the reconstruction and the subsequent developments, and recent changes, including the current scene.

HIST 356. Natives and Strangers (C-1), (W) 3 hours

A study of immigration and the role of ethnic groups in American society. Special emphasis on the tension between assimilation and pluralism in the national character.

HIST 357. Modern America (C-1), (W) 3 hours

A study of American History from 1900 on with special examination of the progressive era, normalcy, the depression, the New Deal, and the role of the United States in world affairs. (Fall)

History

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- HIST 359. Transformation of American Culture (C-1) (W) 3 hours**
A topical approach to nineteenth- and twentieth-century American history, focusing on the modernization of life. Among the topics that may be covered are entertainment, the media, urban culture, social relations, transportation, and art and architecture.
- HIST 364. Christian Church I: From the Early Church Through the Middle Ages (C-1), (W) 3 hours**
A study of the history of western Christianity from the end of the apostolic period to the end of the Middle Ages, emphasizing both institutional and theological development. (Fall)
- HIST 365. Christian Church II: From the Reformation Through the Twentieth Century (C-1), (W) 3 hours**
A study of the reorientation of western Christianity, beginning with the Protestant Reformation and culminating with contemporary religious trends. (Spring)
- HIST 374. History of England (C-1), (W) 3 hours**
A survey of the history of Great Britain from Roman times to the twentieth century, emphasizing political, cultural, and economic developments which have influenced western civilization as a whole.
- HIST 375. Ancient World (C-1), (W) 3 hours**
A study of the three stages of ancient civilization, the Ancient Near East, Greece, and Rome, and the contribution each has made to the development of western culture.
- HIST 386. Rise of the West (C-1), (W) 3 hours**
A study of European history from the fall of Rome to the beginning of the modern age, focusing on those developments which have influenced the institutions and values of modern western civilization. The chronological emphasis is on the eleventh through the sixteenth centuries.
- HIST 387. Modern Society and Politics (C-1), (W) 3 hours**
A study of key thinkers in the nineteenth and twentieth centuries. Reading from original sources, this class will emphasize discussion of critical ideas that have effected the evolution of contemporary social and political thought. Included in the readings are selections from Locke, Mill, Marx, Nietzsche, Lenin, and Hitler.
- HIST 389. Vienna to Vietnam (C-1), (W) 3 hours**
A study of major historical developments affecting international relations since the Napoleonic Era. The class treats antithetical forces such as peace and war, power and weakness, sovereignty and dependence, as well as others, in their historical setting. Students may earn either history or political science credit, depending on individual assignments.
- HIST 465. Topics in History (C-1), (W) 3 hours**
Selected topics in history presented in classroom setting. Subjects covered will determine whether credit is granted in Area I or Area II. This course may be repeated for credit. (On demand)

HIST 295/495. Directed Study (C-1), (W) 1-3 hours

A course emphasizing individual directed study. The instructor to whom a student is assigned will determine whether credit is upper or lower division. This course also includes credit offered by the History Department on directed study tours. Writing emphasis credit for HIST 495 only. Approval of the department is required prior to registration.

HIST 499. Research Methods in History (C-1), (W) 3 hours

Historical theories, procedures, and research methods are examined in conjunction with the preparation of a research project. (Fall)

POLITICAL SCIENCE**PLSC 254. American National and State Government (C-2) 3 hours**

An examination of the operation of the executive, legislative, and judicial branches of government of the national, state, and local levels.

PLSC 357. Modern America (W) 3 hours

An examination of the United States in the twentieth century with special attention to the workings of the political system, diplomatic developments, and the key decisions of the United States Supreme Court.

PLSC 387. Modern Society and Politics (C-2), (W) 3 hours

See HIST 387 for course description.

PLSC 389. Vienna to Vietnam (C-2), (W) 3 hours

See HIST 389 for course description.

PLSC 465. Topics in Political Science (C-2) 3 hours

See HIST 465 for course description.

GEOGRAPHY**GEOG 204. World Geography 3 hours**

(C-2 credit for elementary education majors only).

Maps, land forms, soil, mineral resources, weather, and climate are considered. Man's adjustment to various physiographic regions is studied. (Fall)

GEOG 306. Cultural Geography (C-2) 3 hours

A course for student missionaries assigned to a country other than the United States. Focuses on geographic and social characteristics. Activities include assigned reading prior to departure, journal of on-site observations, formal paper after return to campus. Prior to departure, the student will make all arrangements with a teacher assigned by the Department of History. One-third tuition rate.

History

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HUMANITIES

HMNT 205. Arts and Ideas (D-3)

3 hours

A cultural appreciation class tracing the historical evolution of intellectual movements in western civilization. Ideas from leaders in philosophy and the arts will be studied with appropriate works from music, art, and literature. Students may participate in activities involving specific art forms. Resource persons may assist as available. This course is also taught as part of the European study tour program during selected summer sessions.

HMNT 451, 452. Honors Seminar

1.1 hour

A study of great books in religion, philosophy, science and social science that have shaped western culture. Required of students in the Southern Scholars program during their junior or senior year. Open to other students with permission of department chairman.

EDUCATION

EDUC 438. Methods of Teaching History

2 hours

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials in instruction, planning, testing, and evaluating student performances, the survey and evaluation of textbooks. Four lectures each week of the first half of the semester. (Spring)

(C-1), (C-2), (W) See pages 15-18 for explanation of General Education requirements.

JOURNALISM

Chairman: Lynn Sauls

Faculty: Pam Harris, Volker Henning

Adjunct Faculty: Davis Lundy, Mark Rumsey, Douglas Walter, Billy Weeks

Advisory Council: Frances Alexander, Ed Buice, Cecil R. Coffey, Fred H. Gault, Jr., Margaret Haberman, D. L. Hoover, Beecher Hunter, Michael Loftin, Davis Lundy, Howard McNeesh, Lee Meridith, C. A. Oliphant, Joe Pardue, George Powell, Mark Rumsey, Douglas Walter, Stanley Warren, Ron Wiggins

The Department of Journalism provides an educational environment in which future leaders in journalism, public relations and related areas can acquire the enduring ethical concepts, the intellectual discipline and the professional abilities necessary to the mastery and management of a wide range of writing, editing and other journalistic and public relations skills and techniques.

The department offers the Bachelor of Arts Degree with majors in Journalism and Public Relations. Minors are also available in each of these areas.

Two options are provided by the Journalism major, one with a News Editorial emphasis, the other with a Broadcast Journalism emphasis.

The Journalism major with News Editorial emphasis prepares students for careers as reporters, writers and editors for daily and weekly newspapers, magazines, wire services, publishing houses and for the vast array of publications that serve the church, business, industry, governmental agencies, the medical field, colleges and universities and other non-profit organizations.

Students enrolling in the Journalism major with Broadcast emphasis receive preparation for careers in both commercial and public radio and television as reporters, writers and editors in news and public affairs operations.

Public Relations majors are prepared for careers in every major segment of business, industry, government, the church, colleges, universities, hospitals and other medical institutions and in a wide range of organizations.

Both the Journalism major and the Public Relations major prepare students for entry into graduate schools nationwide.

Members of the faculty will advise each student in planning a study program that is supportive of individual career goals, that meets degree requirements of the Department of Journalism, including the intermediate level of a foreign language, and fulfills General Education requirements.

INTERNSHIPS AND ON-THE-JOB TRAINING

Because of the strong relationships which the Department of Journalism has developed with the Chattanooga area mass media, journalism, broadcast and public relations students have many opportunities to meet and work with professionals in television and radio news, in public relations, advertising and on daily and weekly newspapers.

Internships: Arranging for students to fill internships on newspapers, in publishing houses, in public relations and fund development departments and in radio and television newsrooms is a vital part of the education program provided by the Department of Journalism.

A Journalism Professional Advisory Council works with the department to provide internships that give on-the-job experience. The department also participates in the General Conference internship program in which students work in various denominational institutions. The college radio station, WSMC FM90.5, also provides learning opportunities in the department.

Campus Publications: Students can gain valuable experience as writers and editors by working on Student Association Publications such as *Southern Accent*, the campus newspaper; *Southern Memories*, the yearbook.

BACHELOR OF ARTS DEGREE IN JOURNALISM OR PUBLIC RELATIONS

Major—Journalism: News Editorial: JOUR 105, 205, 225, 265, 316, 326, 355, 425, 427, 488. Required cognates for News Editorial emphasis: ART 109, ECON 213, PLSC 254, and the intermediate level of a foreign language. Recommended elective for News Editorial emphasis: JOUR 497.

TYPICAL SEQUENCE OF COURSES FOR B.A. JOURNALISM

(News Editorial Emphasis)

	YEAR 1	Semester			YEAR 2	Semester	
		1st	2nd			1st	2nd
ENGL 101-102	College Composition	3	3	JOUR 205	News Reporting	3	
JOUR 105	Writing & Ed-Mass Media		3	JOUR 265	Hist/Theory of Mass Comm		3
JOUR 225	Intro to Photography	3		ECON 213	Survey of Economics	3	
ART 109	Design I	3		PLSC 254	American Government		3
	Area B, Religion		3		Area B, Religion	3	
	Area E, Natural Sci	3			Area D-1, Begin For Lang	3	3
	Area A-2, Mathematics	0-3			Area C-1, History	3	3
	Area D-4, Speech		3		Minor or Elective		3
	Area G-3, Recreation		1				15
	Minor or Elective	3-0	3				15
		15	16				

YEAR 3		Semester 1st 2nd		YEAR 4		Semester 1st 2nd	
JOUR 326	News Com & Crit Wrtg	3		JOUR 488	Seminar-Mass Comm & Soc	3	
JOUR 355	Reporting Pub Affairs		3	JOUR 427	Mass Media Laws		3
JOUR 316	Mag & Feature Writing	3		JOUR 425	Science & Tech Writing	3	
	Area B, Religion		3	JOUR 497	Jour Internship (Rec)		3
	Area E, Natural Sci		3		Area B, Religion		3
	Area D-1, Inter For Lang	3	3		Area F-1, Behavioral Sci	3	
	Area F-2, Family Sci				Area G-2, Practical Skills		
	OR		2		OR		2
	Area F-3, Health Sci				Area G-3, Recreation		
	Minor or Elective	5	4		Minor or Elective	5	6
		16	16			16	15

See pages 12, 13 and 15-18 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Major—Journalism: Broadcasting: JOUR 105, 205, 217, 265, 314, 355, 427, 488, 493-494. Required cognates for Broadcast emphasis: BUAD 326, 334; PLSC 254, and the intermediate level of a foreign language. Recommended elective for Broadcast emphasis: JOUR 497.

TYPICAL SEQUENCE OF COURSES FOR B.A. JOURNALISM (Broadcast Journalism Emphasis)

YEAR 1		Semester 1st 2nd		YEAR 2		Semester 1st 2nd	
ENGL 101-102	College Composition	3	3	JOUR 205	News Reporting		3
JOUR 105	Writing & Ed-Mass Media		3	JOUR 217	Radio Sta Operations		3
SPCH 135	Intro to Public Spkg	3		JOUR 265	Hist/Theory of Mass Comm		3
	Area B, Religion		3	PLSC 254	American Government		3
	Area E, Natural Sci		3		Area B, Religion		3
	Area A-2, Mathematics		0-3		Area C-1, History		3 3
	Area G-3, Recreation		1		Area D-1, Inter For Lang		3 3
	Area D-1, Begin For Lang	3	3		Minor or Elective		4
	Minor or Elective		3				16 15
		15	16				
YEAR 3		Semester 1st 2nd		YEAR 4		Semester 1st 2nd	
JOUR 314	Broadcast News Writing		3	JOUR 427	Mass Media Law & Ethics		3
JOUR 355	Reporting Pub Affairs	3		JOUR 488	Seminar-Mass Comm & Soc		3
BUAD 326	Intro to Marketing		3	JOUR 494	Broadcast Jour Workshop		6
BUAD 334	Princ of Management	3		JOUR 497	Internship (Rec)		3
	Area B, Religion		3		Area B, Religion (U.D.)		3
	Area E, Natural Sci		3		Area G, Skills		2
	Area G, Skills		3		Area F-1, Behav Sci		3
	Area F-2, Family Sci				Minor or Elective		5 3
	OR		2				16 15
	Area F-3, Health Sci						
	Minor or Elective	3	5				
		15	16				

See pages 12, 13 and 15-18 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Major—Public Relations: JOUR 105, 205, 225, 316, 427, 488; PREL 334, 344, 365, 406, 480. Required cognates for Public Relations: ART 109, BUAD 326, 355, TECH 145, SPCH 135, and the intermediate level of a foreign language. Recommended electives for Public Relations: JOUR 314, PREL 368, 497.

TYPICAL SEQUENCE OF COURSES FOR B.A. PUBLIC RELATIONS

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
ENGL 101-102	College Composition	3	3	JOUR 205	News Reporting		3
SPCH 135	Intro to Public Spkg	3		JOUR 225	Intro to Photography		3
JOUR 105	Writing & Ed-Mass Media		3	TECH 145	Graphic Arts		3
ART 109	Design I	3		ECON 213	Survey of Economics		3
	Area B, Religion		3		Area B, Religion		3
	Area D-1, Begin For Lang	3	3		Area D-1, Intermed For Lang	3	3
	Area A-2, Mathematics	0-3			Area E, Natural Sci		3
	Area G-3, Recreation		1		Area F-1, Behavioral Sci		3
	Minor or Elective	3-0	3		Minor or Elective		4
		15	16			15	16
YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
JOUR 316	Mag & Feature Writing	3		PREL 480	Case Studies		2
PREL 334	Pub Rel Principles	2		PREL 406	Public Opinion	3	
PREL 344	Fund of Advertising	2		PREL 368	Fund Development (Rec)		3
PREL 365	Pub Rel Techniques	3		PREL 497	Internship (Rec)	3	
BUAD 326	Intro to Marketing	3		JOUR 427	Mass Media Law & Ethics		3
BUAD 355	Organizational Behavior	2		JOUR 488	Seminar-Mass Comm & Soc		3
	Area B, Religion	3		JOUR 315	Adv Photography (Rec)		2
	Area C-1, History	3	3		Area B, Religion (U.D.)	3	
	Area E, Natural Sci	3			Minor or Elective	6	3
	Area F-2, Family Sci					15	16
	OR	2					
	Area F-3, Health Sci						
	Minor or Elective	2					
		15	16				

See pages 12, 13 and 15-18 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Minor—News Editorial Journalism: 18 hours

JOUR 105	Writing and Editing for the Mass Media	3	hours
JOUR 205	News Reporting	3	hours
JOUR 316	Magazine and Feature Article Writing	3	hours
JOUR 326	News Commentary and Critical Writing	3	hours
JOUR 427	Mass Media Law and Ethics	3	hours
JOUR 488	Seminar: Mass Communications and Society	3	hours

Minor—Broadcast Journalism: 18 hours

JOUR 105	Writing and Editing for the Mass Media .	3 hours
JOUR 205	News Reporting	3 hours
JOUR 217	Radio Station Operations	3 hours
JOUR 314	Broadcast News Writing	3 hours
JOUR 493-494	Broadcast Journalism Workshop	3,3 hours

Minor—Public Relations: 19 hours

ART 109	Design I	3 hours
JOUR 105	Writing and Editing for the Mass Media .	3 hours
JOUR 488	Seminar: Mass Communications and Society	3 hours
PREL 334	Public Relations Principles and Theory .	2 hours
PREL 344	Fundamentals of Advertising	2 hours
PREL 365	Public Relations Techniques	3 hours
PREL 480	Case Studies: Public Relations and Organizational Communications	3 hours

JOURNALISM**JOUR 105. Writing and Editing for the Mass Media 3 hours**

Prerequisite: Ability to type at least 30 wpm.

Introduction to computerized writing and editing of news, features and publicity for print and broadcast media; using the *Associated Press Stylebook* in copy editing; copy improvement, writing headlines, checking accuracy; picture editing, writing photo captions.

JOUR 205. News Reporting 3 hours

Prerequisite: JOUR 105 or permission of the instructor.

News gathering and research techniques; development of newswriting skills and style. Emphasis on clarity of writing, accuracy, balance and fairness and on meeting deadlines in covering news events and interviewing news sources.

JOUR 217. Broadcast Management 3 hours

The 100,000-watt college radio station WSMC-FM 90.5 provides the setting in which students learn the principles of broadcast management as they apply to radio and television. Class members become familiar with day-to-day station operations, including control room procedures, announcing, production, broadcast news and programming. Professionals from both radio and television serve as lecturers.

JOUR 225. Introduction to Photography (G-1) 3 hours

Instruction in use of the camera and light meter; study of elements that constitute good photo composition, darkroom techniques involving film development, negative enlargement and print finishing. Students supply their own 35mm cameras with adjustable f-stops and shutter speeds. Two hours of lecture, three hours of laboratory each week. Supply lab fee of \$85 charged in addition to tuition.

Journalism

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JOUR 265. History and Theory of Mass Communications 3 hours

Development of the press in the United States from colonial times to the present, its influence on American government and institutions; rise of the mass media system, including newspapers, magazines, advertising, public relations, radio, television and the impact of the media system on society. The course also includes study of theoretical models designed to provide understanding of the communications process.

JOUR 314. Broadcast News Writing (W) 3 hours

Prerequisite: JOUR 105 or permission of the instructor.

Gathering information, interviewing, writing and editing for the broadcast media. Preparation of news and feature copy for release on the college radio station; instruction in writing spot announcements.

JOUR 315. Photojournalism (G-1) 2 hours

Prerequisite: JOUR 225 or equivalent.

Advanced photographic and darkroom techniques with emphasis on photojournalism, creative use of the camera in producing photo essays, picture stories for publication and photo collections for exhibit. Students supply their own cameras with adjustable f-stops and shutter speeds. One hour of lecture, three hours of laboratory each week. Supply lab fee of \$85 charged in addition to tuition.

JOUR 316. Magazine and Feature Article Writing (W) 3 hours

Researching, writing and marketing the factual magazine piece and the newspaper feature article. Developing writing style through creative use of the English language.

JOUR 326. News Commentary and Critical Writing 3 hours

Journalistic interpretation and analysis of the news, study of the editorial and critical functions of the press; writing well-reasoned editorials and opinion-page articles based on thorough research and careful analysis of information. Writing book reviews, evaluations of radio, television, film productions, music, art and other cultural works.

JOUR 355. Reporting Public Affairs 3 hours

Reporting the actions of local, state and federal governments, politics, education, religion, economics, social and environmental issues, with emphasis on background research and investigative reporting.

JOUR 425. Science and Technical Writing 3 hours

Specialized course in researching, interpreting and writing articles on health, medicine, science and technology for publications serving the general public as well as professional audiences.

JOUR 427. Mass Media Law and Ethics 3 hours

Study of the legal, ethical and constitutional issues affecting the media and the news gathering and dissemination process. Concepts of libel, privacy, free-press, fair-trial: Contempt of court, access to information, protection of sources, copyright law and government regulation of the media.

JOUR 488. Seminar: Mass Communications and Society 3 hours

This seminar provides for informed student participation in the examination of the role and function of the mass media system in the United States; the concept of social responsibility as a constraint upon the media; ethical, social, economic and political issues involved in the function of newspapers, magazines, radio, television, advertising and public relations. Emphasis on reading, writing media critiques and on analysis of concepts and ideas.

JOUR 489. Advising Student Publications 2 hours

Journalistic writing and editing principles as they apply to student newspapers, yearbooks and other publications; libel law, responsibilities of the publications adviser and of the student editor; accuracy, balance and fairness in handling information for publication; role of student publications in institutional life.

JOUR 490. Workshop for Free-lance Writers 3-6 hours

Designed for individuals who are or who want to become free-lance writers and who have developed an outline for a major manuscript or who are engaged in writing a substantial magazine article or book. The workshop provides critical evaluation and guidance in writing and rewriting as well as an overview of the challenges and opportunities in free-lance writing. Enrollment by permission of instructor.

JOUR 493-494. Broadcast Journalism Workshop I, II 3,3 hours

The purpose of this course is to give students realistic training in broadcast journalism through personal involvement. A television or radio station serves as the classroom in which the workshop is conducted. Students begin as observers of news and public affairs operations, then become active participants in these operations. Course requirements include assigned readings, periodic research reports based on readings, observations, activities and interviews with station news and other personnel. A major research paper and participation in twice-monthly group seminars are also required. Students are responsible for their own transportation. (Fall, Spring)

JOUR 295/495. Directed Study 1-4 hours

For students who want to do independent research and writing in a specialized area of the mass media. The end product of the directed study will be a carefully documented research paper. Directed study topics will be selected with guidance from the instructor who will serve as a consultant to the student in carrying out the research project.

JOUR 497. Journalism Internship 3 hours

Students work at a newspaper, magazine, radio or television station; in a publishing house, public relations department or firm or an advertising agency to obtain on-the-job experience. Conferences with the instructor provide evaluation and guidance. Internship arrangements are made in advance in consultation with the instructor.

PUBLIC RELATIONS

PREL 334. Public Relations Principles and Theory **2 hours**

Basic Public Relations principles, philosophy and theory as they relate to the historical development and contemporary practice of public relations; analysis of the public relations role in business, industry and non-profit organizations and of the functions and responsibilities of the public relations practitioner.

PREL 344. Fundamentals of Advertising **2 hours**

Advertising theories and principles; fundamentals of advertising copy writing, layout and design. Overview of research and campaign planning for public relations and marketing.

PREL 365. Public Relations Techniques **3 hours**

Communications techniques used in public relations to identify and reach specified audiences through mass media channels and through controlled media. Preparation of press releases, brochures, newsletters, reports, audio-visuals, speeches and media campaigns; planning and conducting special events.

PREL 368. Fund Development **3 hours**

Study of fund-raising principles and concepts; techniques used in planning organizing and carrying out a fund-raising campaign; developing prospect lists, writing proposals, identifying and training development leadership; working with foundations.

PREL 406. Public Opinion and Propaganda **3 hours**

Historical origin and contemporary uses of propaganda; the concept of public opinion; motivational tools and techniques to achieve public response; characteristics of publics and how they are influenced.

PREL 480. Case Studies: Public Relations and Organizational Communications **2 hours**

The public relations function in the context of the organizational communications and decision-making process. Application of communications theory and techniques in developing both internal and external communications systems in terms of organizational nature and purpose; selected case studies.

PREL 295/495. Directed Study **1-4 hours**

For students who want to do independent research and writing in a specialized area of public relations, advertising or marketing. The end product of the directed study will be a carefully documented research paper. Directed study topics will be selected with guidance from the instructor who will serve as a consultant to the student in carrying out the research project.

PREL 497. Public Relations Internship **3 hours**

Supervised work in a public relations office, department or agency. Conferences with the instructor to provide evaluation and guidance. Internship arrangements are made in advance with the instructor.

LIBRARY SCIENCE

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Chairman: Peg Bennett

Faculty: Frank Di Memmo, Loranne Grace, Patricia Morrison

Adjunct Faculty: Lorabel Midkiff

LIBR 125. Reference (G-2)**1 hour**

Designed primarily for student library assistants. The course presents the basic concepts of library services and the skills needed for efficient use of library materials. The student will be required to complete eight separate modules of study pertaining to the organization of the library and the use of general and special reference works commonly found in a college library. This course is required of all library workers. (Fall, Spring)

LIBR 325. Library Materials for Children**3 hours**

Presents to the student a knowledge of a wide variety of books and related materials for children, grades 1-8. Develops an appreciation for books and reading that can be enthusiastically transmitted to young readers through critical evaluation and selection of books and materials. Correlates the use of books and materials to the specific needs and interests of young readers. (Spring)

LIBR 333. Instructional Media**2 hours**

A laboratory course in the selection, operation, and use of audio-visual equipment and materials. Preparation of transparencies, flat pictures, graphics, and audio materials will be required. One hour lecture and three hours laboratory per week. (Spring)

LIBR 425. Library Materials for Young Adults and Adults**2 hours**

Gives emphasis to the variety of books and related materials for grades 9-12. Correlates critical evaluation and selection to the interests, use, and specific needs of the young adult as he develops his reading habits and skills. Develops an appreciation for books and readings that can enthusiastically involve both young adults and adults. (Spring)

Chairman: Lawrence Hanson

Faculty: Robert Moore (Study Leave), Art Richert, John D. Worth

Throughout recorded history mathematics and mathematical thinking have influenced man's culture to an extent that even many well-educated people fail to appreciate. *The Elements* of Euclid, the invention of a place-value numeration system, the invention of the calculus, and more recently the development of statistical inference, to name just a few, are mathematical contributions to civilization which have significantly affected the philosophies, commerce, science, and technology of mankind.

The Mathematics Department seeks to transmit this mathematical heritage to the students of Southern College by (1) introducing students to mathematical concepts and techniques and the disciplined, logical thinking required to successfully apply them to a variety of problem-solving experiences, (2) providing a stage of the formal education of professional mathematicians, (3) educating teachers of mathematics, and (4) providing appropriate courses for users of mathematics.

PROGRAMS IN MATHEMATICS

Major (B.A.): Thirty hours including MATH 181, 182, 216, 218, 318, 319, 411, 412 and 485. CPTR 131 or 218 is a cognate requirement. For those with two majors or secondary certification, a mathematics elective may be substituted for MATH 412. Secondary certification requires MATH 215, 415.

TYPICAL SEQUENCE OF COURSES FOR B.A. MATHEMATICS

YEAR 1			Semester 1st 2nd		YEAR 2			Semester 1st 2nd	
ENGL 101-102	College Composition		3	3	MATH 218	Calculus III		3	
MATH 181, 182	Calculus I, II		4	3	MATH 216	Set Theory & Logic			2
CPTR 131 or 218	Program Lang		3		MATH	Elective			3
	Area B, Religion			3		Area B, Religion			3
	Area F-1, Behav Science			3		Area C-1, History		3	3
	Area F-2, Family Sci					Area E, Science		3	3
	OR			2		Area G-1, Creative Skills			
	Area F-3, Health Sci					OR			2
	Area G-3, Recreational			1		Area G-3, Recreation			
	Area D-1, Beg Foreign Lang		3	3		Elective or Minor			3 3
			15	16					15 16

YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
MATH 318	Algebraic Structures*	3		MATH 411-412	Intermediate Analysis*	3	3
MATH 319	Linear Algebra*	3		MATH 485	Mathematics Seminar*	1	
MATH	Elective	3			Area B, Religion (U.D.)	3	
	Area B, Religion	3			Elective or Minor	9	12
	Area C-2, Pol Sci/Econ	3				16	15
	Area D, Lit/Fine Arts/Spch		3				
	Elective or Minor	7	6				
		16	15				

* These courses may be offered during the 3rd or 4th year.

See pages 12, 13 and 15-18 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Major (B.S.): Forty hours including MATH 181, 182, 216, 218, 317, 318, 319, 411, 412, and 485. Cognate requirements are CPTR 131 or 218; PHYS 211-212, 213-214.

TYPICAL SEQUENCE OF COURSES FOR B.S. MATHEMATICS

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
ENGL 101-102	College Composition	3	3	PHYS 211-212	General Physics	3	3
MATH 181, 182	Calculus I, II	4	3	PHYS 213-214	General Physics Lab	1	1
CPTR 131 or 218	Program Lang	3		MATH 218	Calculus III		3
	Area B, Religion		3	MATH 216	Set Theory & Logic		2
	Area F-1, Behav Science		3	MATH	Elective		3
	Area F-2, Family Sci				Area B, Religion		3
	OR		2		Area C-1, History		3
	Area F-3, Health Sci				Area G-1, Creative Skills		
	Area G-3, Recreational		1		OR		2
	Elective	3	3		Area G-3, Recreational		
		15	16		Elective		4
						15	16
YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
MATH 318	Algebraic Structures*	3		MATH 411-412	Intermediate Analysis*	3	3
MATH 319	Linear Algebra*		3	MATH 485	Mathematics Seminar*	1	
MATH 317	Complex Variables*		3	MATH	Elective	3	3
MATH	Elective	3			Area D, Lang/Lit/Fine Art	3	3
	Area B, Religion	3			Area B, Religion (U.D.)	3	
	Area C-2, Pol Sci/Econ	3			Elective	3	6
	Area D, Lang/Lit/Fine Art		3			16	15
	Area E, Science		3				
	Elective	4	3				
		16	15				

* These courses may be offered during the 3rd or 4th year.

See pages 12, 13 and 15-18 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Mathematics

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Minor: Eighteen hours including MATH 181 and six hours of upper division courses.

Teaching Endorsement: Requirements listed under Education and Psychology Department.

MATH 099. Basic Mathematics (A-2) Non-Credit

This course, calculated as one hour for determining class loads, concentrates on the skills of arithmetic and beginning algebra. Required of all students with ACT mathematics standard score below 12. There is a \$60 tuition charge. (Fall, Spring, Summer)

MATH 103. Survey of Mathematics (A-2) 3 hours

Prerequisite: MATH 099 or exemption.

Basic concepts from the following topics: sets, mathematical logic, numeration systems, number theory, probability, statistics, algebra, geometry, metric system, consumer mathematics. This course does not apply on a major or minor in mathematics. (Fall, Spring)

MATH 104. Intermediate Algebra (A-2) 3 hours

Prerequisite: MATH 099 or exemption.

Number systems and their properties, exponents and radicals, equations and inequalities, polynomial functions and their graphs, systems of equations, logarithms. This course does not apply on a major or minor in mathematics and is not accepted as transfer credit by most colleges. (Fall, Spring, Summer)

MATH 114. Precalculus (A-2) 3 hours

Prerequisite: MATH 104 or two years of high school algebra.

The real and complex number systems; the elementary functions and their graphs, including polynomial and rational functions, exponential and logarithmic functions, trigonometric functions and their inverses; analytic geometry. Does not apply toward a major in mathematics. (Fall, Spring, Summer)

MATH 181. Calculus I 4 hours

Prerequisite: MATH 114 or four years of high school mathematics which include at least one semester of trigonometry and some analytic geometry.

Differential and integral calculus of the elementary functions including limits, continuity, the derivative, computation of derivatives, applications of the derivative, the definite integral, the fundamental theorem of calculus, computation of antiderivatives, applications of the definite integral. (Fall, Spring)

MATH 182. Calculus II 3 hours

Prerequisite: MATH 181.

Precise definitions of limits, further topics in differential calculus, estimating definite integrals, polar coordinates, parametric equations, sequences, infinite series, Taylor series, functions of two variables, partial derivatives, directional derivatives. (Spring)

MATH 215. Statistics (A-2) 3 hours

Prerequisite: An ACT mathematics standard score of 22 or above, or two years of high school algebra with a B average, or MATH 104, or MATH 103.

An introduction to descriptive and inferential statistics including organization and analysis of data, elementary probability, probability distributions (binomial, normal, Student's *t*, chi-square, *F*), estimation, hypothesis testing, correlation and regression, nonparametric statistics. (Fall, Spring)

MATH 216. Set Theory and Logic 2 hours

Prerequisite: MATH 181.

An introduction to some of the basic ideas, terminology, and notation of logic and sets. The concept of a mathematical proof will be emphasized. (Spring)

MATH 218. Calculus III 3 hours

Prerequisite: MATH 181.

Algebraic operations on vectors, multiple integrals, vector calculus including Green's theorem, Stokes's theorem, and the divergence theorem. (Fall)

MATH 314. Applied Finite Mathematics 3 hours

Prerequisite: MATH 215 or BUAD 313.

Linear programming—simplex method, primal/dual interpretation, transportation problems. Decision theory under classical and Bayesian statistics. Game theory, inventory models and control, queuing theory. Program Evaluation and Review Technique (PERT). (Spring)

MATH 315. Differential Equations 3 hours

Prerequisite: MATH 182.

Classification and solution of common types of ordinary differential equations, power series solutions, systems of linear differential equations, the Laplace transform, applications to problems in the physical sciences. (Spring)

MATH 316. Mathematics of Physics 3 hours

Prerequisite: MATH 315.

Partial differential equations, Fourier series, boundary value problems, Bessel functions, Legendre polynomials. (Fall, even years)

MATH 317. Complex Variables 3 hours

Prerequisite: MATH 216, 218.

An introduction to the theory of analytic functions of a complex variable, including mappings by elementary functions, complex integration, the Cauchy-Goursat theorem, Cauchy's integral formula, power series, Laurent series, the theory of residues, and conformal mapping. (Spring, odd years)

MATH 318. Algebraic Structures 3 hours

Prerequisite: MATH 216, 218.

The structure of groups, rings, integral domains, and fields. (Fall, even years)

Mathematics

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MATH 319. Linear Algebra 3 hours

Prerequisite: MATH 181, 216.

Finite dimensional vector spaces and the attendant concepts of systems of linear equations, linear transformations, matrices, determinants, eigenvalues and eigenvectors. (Spring, odd years)

MATH 405. Numerical Analysis 3 hours

Prerequisites: MATH 218, 315, and a knowledge of FORTRAN.

Interpolation and approximation, numerical differentiation and integration, numerical methods of solving algebraic and differential equations, error analysis. (Spring, even years)

MATH 411, 412. Intermediate Analysis 3,3 hours

Prerequisite: MATH 216, 218.

The real number system, sequences, limits and metric spaces, continuity, uniform continuity, introduction to point set topology, properties of the derivative and integral, convergence and uniform convergence of sequences and series of functions, the Lebesgue integral, Fourier series. (Fall, odd years, and Spring, even years)

MATH 415. Geometry 3 hours

Prerequisite: MATH 181, 216.

Topics selected from the following: foundations of Euclidean geometry, finite geometries, advanced Euclidean geometry, non-Euclidean geometry, geometric transformations, the geometry of inversion, projective geometry. (Fall, odd years)

MATH 465. Nursing Statistics 3 hours

Prerequisite: MATH 103 or 104 or equivalent and permission from the Division of Nursing and the Department of Mathematics.

Descriptive and inferential statistics with an emphasis on techniques and tests which are most often used in nursing research. Topics are selected from the following: organization and analysis of data, probability, various parametric and nonparametric probability distributions, estimation, hypothesis testing, correlation and regression. This course is designed for community registered nurses who are working on advanced degrees and is offered periodically at the request of the Division of Nursing.

MATH 485. Mathematics Seminar (W) 1 hour

Prerequisite: Permission of Mathematics staff.

Written and oral reports are made on a variety of topics in mathematics including topics in current mathematical literature. Mathematics majors obtaining secondary certification must choose topics in the history and philosophy of mathematics. (Fall, odd years)

MATH 295/495. Directed Study 1-3 hours

Prerequisite: Approval by department faculty.

Individual reading and problem solving in a field chosen in consultation with an instructor. (On demand)

EDUCATION

EDUC 438. Methods of Teaching Mathematics

2 hours

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials of instruction, planning, testing, and evaluating student performance, and the survey and evaluation of textbooks. Four lectures each week of the first half of the semester. (Spring)

(A-2), (W) See pages 15-18 for explanation of General Education requirements.

FOREIGN STUDY

Most ACA students return with a minor in the language. Some, especially if they have completed the intermediate year before leaving for Europe, return with enough credits for a major. A major or minor in the foreign language is not automatic, however. ACA students intending to fulfill major or minor requirements must consult with the language staff before drafting their overseas program.

BACHELOR OF ARTS DEGREE IN FRENCH, GERMAN, OR SPANISH

Major—French, German or Spanish: Thirty hours for the Bachelor of Arts degree, excluding course 101-103 but including course 211-212. Beyond the number of hours available on the Southern College campus is limited. Students are expected to earn all upper division credits for a language major through ACA. Excluded if it credits identified and minor (French, German or Spanish): Fifteen hours, excluding course 101-103 but including course 211-212 and six hours of upper division courses. Students desiring a language minor must earn all

MODERN LANGUAGES

Chairman: Helmut Ott

This department offers the opportunity for students to discover French, German, and Spanish not only as living languages but also as reflections of the cultures, customs, and peoples they represent. The aim, then, is to provide both an aesthetic background and a practical tool in the event the student becomes an overseas traveler or worker.

The ability to communicate with people is increasingly essential in today's shrinking world, and an acquaintance with a foreign culture should be part of the background of educated persons, particularly those with a sense of world mission. The Department of Modern Languages aspires toward helping Christians fulfill this responsibility to demonstrate good will, whether as travelers and business people or as respondents to the Master's gospel commission.

FOREIGN STUDY

Adventist Colleges Abroad. Southern College is a member of the consortium of colleges and universities which, under the auspices of the General Conference of Seventh-day Adventists, supports the Adventist Colleges Abroad program. ACA provides an opportunity for students of French, German, or Spanish to achieve proficiency in the foreign language amid the added advantages of an authentic cultural setting.

The following institutions are affiliates of ACA: In Austria, Seminar Schloss Bogenhofen, Braunau; in France, Seminaire Adventiste, Colonges-sous-Saleve; and in Spain, Colegio Adventista de Sagunto, Sagunto.

Most ACA students return with a minor in the language. Some, especially if they have completed the intermediate year before leaving for Europe, return with enough credits for a major. A major or minor in the foreign language is not automatic, however; ACA students intending to fulfill major or minor requirements must counsel with the Modern Languages staff before drafting their overseas program.

BACHELOR OF ARTS DEGREE IN FRENCH, GERMAN, OR SPANISH

Major—French, German or Spanish: Thirty hours for the Bachelor of Arts degree, excluding course 101-102 but including course 211-212. Because the number of hours available on the Southern College campus is limited, students are expected to earn all upper division credits for a language major through ACA.

Minor—French, German or Spanish: Eighteen hours excluding course 101-102 but including course 211-212 and six hours of upper-division courses. Students desiring a language minor must earn all

upper division credits either at ACA or in two summer terms in an intensive language program previously approved by this department.

BACHELOR OF ARTS IN INTERNATIONAL STUDIES (INST)

Major—International Studies: This major is intended to offer basic language and literature within a framework of international cultural dimensions. Such a program is sometimes considered a “humanities major.” To complete this program in either French, German, or Spanish, students must spend at least one semester on an ACA campus overseas. For the International Studies major, thirty hours are required, as listed below. A cognate requirement of RELT 368, Comparative Religions (3 hours), may be taken as one of the required general education courses (area B).

SPAN (or GRMN or FREN) 211-212 —	
Intermediate Level	6 hours
Composition and Conversation	3 hours
Culture and Civilization	3 hours
Additional hours in language and literature, or the intermediate level of a second language	6 hours*
ENGL 445 — World Literature	3 hours
ART 344 — History of Art	3 hours
MUHL 115 — Listening to Music	3 hours
HIST 386, or 389, or 354 — Rise of the West, or Vienna to Vietnam, or History of Latin America	3 hours

*Students desiring certification in Spanish, French, or German must take these six hours in that language.

TOTAL 30 hours

Teaching Endorsement: Requirements listed under Education and Psychology Department.

SPECIAL COURSE

MDLG 295/495. Directed Study **1-3 hours**

The content of this course will be adjusted to meet the particular needs of the individual student. It is particularly useful to ACA students who are unable to complete all the requirements for their major at the overseas campus. This course also includes credit offered by the Modern Languages Department on directed study tours. Approval of the instructor must be obtained prior to registration for the course.

Modern Languages

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FRENCH

FREN 101-102. Elementary French (D-1)

3,3 hours

FREN 101, or equivalent, is prerequisite to FREN 102.

A foundation course in the basic skills. May be waived by examination. Laboratory work is required. No credit will be allowed for elementary modern language if credit has already been received for it at the secondary level. (No credit may be earned for this course by students whose mother tongue is French.)

FREN 211-212. Intermediate French (D-1)

3,3 hours

Prerequisite: FREN 101-102, or two years of French in secondary school, or a satisfactory score on a standardized examination.

Advanced grammar; intensive and extensive reading of moderately difficult material; oral and written exercises. Laboratory work is required. (No credit may be earned for this course by students whose mother tongue is French. FREN 211 is offered Fall, odd years; 212, Spring, even years.)

GERMAN

GRMN 101-102. Elementary German (D-1)

3,3 hours

GRMN 101, or equivalent, or one year of German in secondary school, is prerequisite to GRMN 102.

A foundation course in the basic skills. May be waived by examination. Laboratory work is required. No credit will be allowed for elementary modern language if credit has already been received for it at the secondary level. (No credit may be earned for this course by students whose mother tongue is German.)

GRMN 211-212. Intermediate German (D-1)

3,3 hours

Prerequisite: GRMN 101-102, or two years of German in secondary school, or a satisfactory score on a standardized examination.

Advanced grammar; intensive and extensive reading of moderately difficult material; oral and written exercises. Laboratory work is required. (No credit may be earned for this course by students whose mother tongue is German. GRMN 211 is offered Fall, odd years; 212, Spring, even years.)

SPANISH

SPAN 101-102. Elementary Spanish (D-1)

3,3 hours

SPAN 101, or equivalent, is prerequisite to SPAN 102.

A foundation course in the basic skills. May be waived by examination. Laboratory work is required. No credit will be allowed for elementary modern language if credit has already been received for it at the secondary level. (No credit may be earned for this course by students whose mother tongue is Spanish.)

SPAN 211-212. Intermediate Spanish (D-1)

3,3 hours

Prerequisite: SPAN 101-102, or two years of Spanish in secondary school, or a satisfactory score on a standardized examination.

Advanced grammar; intensive and extensive reading of moderately difficult Spanish texts; oral and written exercises. Laboratory work is required. (No credit may be earned for this course by students whose mother tongue is Spanish).

EDUCATION

EDUC 438. Methods of Teaching Modern Languages

2 hours

Prerequisite: Admission to Teacher Education.

Learning and teaching a foreign language, in both theory and practical application, with special attention to goals, planning, classroom techniques, selection and utilization of materials and aids, and evaluation of student performance. Four lectures each week of the first half of the first semester during the senior year.

(D-1), (D-2), (W) See pages 15-18 for explanation of General Education requirements.

Chairman: Marvin L. Robertson

Faculty: J. Bruce Ashton, Sandra Fryling, Orlo Gilbert, Judith Glass, Patricia Silver

Adjunct Faculty: Greg Bean, Devin Fryling, Elaine Janzen, Nora Kile, Michael Moore, Billye Brown-Youmans, E. D. Rushworth, Leslie Torchio

The faculty of the Department of Music believes that music is one of the arts given to man by his Creator to be used in the worship of God and to enhance the quality of man's life. In harmony with this philosophy, course work is offered which meets the needs of the general college student as well as music majors and minors.

The Department of Music offers two baccalaureate degrees, the Bachelor of Music degree in music education and the Bachelor of Arts degree in music. Both degrees require courses in music theory and history, as well as a high level of achievement in a major performance area. In addition, the Bachelor of Music degree emphasizes the skills necessary for teaching music, with special emphasis on the training of teachers for the Seventh-day Adventist school system.

ADMISSION REQUIREMENTS

Music majors must fulfill all the general admission requirements of the college. In addition, a prospective music major is required to take written and aural entrance examinations in music theory and a performance examination in the applied concentration. To obtain freshman standing as a music major the student must qualify for MUCT 111 and MUPF 189.

Further information regarding the entrance examinations may be obtained by writing the chairman of the Department of Music.

GENERAL REQUIREMENTS

Functional Piano: All music majors must pass a functional piano examination or pass four hours of piano secondary. (The latter may not be used as part of the applied music requirement in the Vocal/General Endorsement for teacher certification.) The functional piano examination includes the playing of hymns, scales, triads, arpeggios, several moderately easy compositions and accompaniments, and the harmonization of simple folk melodies. The functional piano examination should be passed during the first week of the first semester in residence or the student must register for applied piano instruction.

Applied Music Credit: One semester hour of credit will be given for fourteen half-hour lessons with a minimum of four hours of practice per lesson. Applied music concentration grades are assigned following a jury examination at the end of each semester.

Concert and Recital Attendance: Full-time music majors are required to attend twelve Department approved concerts per semester, except for the student teaching semester. Attendance shall include faculty and senior recitals in the student's applied concentration area. Failure to meet this requirement will nullify music major status.

Music Ensemble Participation: All music majors are required to participate in a music ensemble every semester in full-time residence (12 or more hours). During the student teaching semester, students are exempted from this requirement. Teacher certification candidates must, however, complete eight (8) hours of appropriate ensembles.

Senior Recital: The candidate for the Bachelor of Music degree or the Bachelor of Arts degree will present a senior recital. The student must be registered for private instruction while preparing for the senior recital. Upon music faculty approval the senior recital requirement may be partially fulfilled through a conducting or chamber music performance.

A faculty audition of the complete program must be scheduled at least three weeks before the recital date. Unsatisfactory performance at this audition will result in a rescheduling of the recital date.

JUNIOR STANDING

Music majors must apply for junior standing at the end of the sophomore year. The requirements for junior standing are as follows:

- a. An overall grade point average of 2.00 for the Bachelor of Arts degree and 2.25 for the Bachelor of Music degree.
- b. A grade point average of 2.50 in all music courses.
- c. Completion of the functional piano requirement.
- d. Completion of MUCT 111-112, 121-122.
- e. Completion of four hours of credit in the student's applied music concentration area.

Faculty evaluation of the application for junior standing will result in the student's receiving one of the following classifications: (a) Pass, Bachelor of Music; (b) Pass, Bachelor of Arts; (c) Probation; (d) Fail. Junior standing requirements must be met at least two semesters before graduation.

BACHELOR OF MUSIC CURRICULUM

The Bachelor of Music degree in music education is an NCATE approved degree which meets state and denominational certification requirements. Students must apply for admission to the Teacher Education Program, through the Department of Education, prior to taking education courses. Each student will be responsible to determine the additional courses that may be required for certification in the state of his choice. This information can be obtained at the Department of Education.

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State certification and graduation requirements for Music Education majors include passing the NTE Specialty Test in Music Education at the 480 level.

The following general education requirements apply only to students pursuing a Bachelor of Music degree:

A. Basic Academic Skills		9 hours
1. English	6 hours	
2. Mathematics	3 hours	
B. Religion		12 hours
1. Biblical Studies (RELB)	6 hours	
2. Religion: RELT 138, 255	6 hours	
C. History, Political and Economic Systems		9 hours
1. History	6 hours	
2. Political Science and Economics	3 hours	
D. Language, Literature, Fine Arts		3 hours
1. Foreign Languages (Intermediate level)	0-3 hours	
2. Literature	0-3 hours	
E. Natural Sciences		6 hours
1. Biology	0-3 hours	
2. Chemistry	0-3 hours	
3. Physics	0-3 hours	
F. Behavioral, Family, Health Sciences		2 hours
1. Health Science: HLED 173	2 hours	
G. Activity Skills		4 hours
1. Recreational Skills	4 hours	
TOTAL		45 hours

Music Core:

MUCT 111-112	Music Theory I, II	6 hours
MUCT 121-122	Aural Theory I, II	2 hours
MUCT 211-212	Advanced Music Theory III, IV	6 hours
MUCT 221-222	Advanced Aural Theory III, IV	2 hours
MUHL 320-323	Music history courses	8 hours
MUPF 477	Instrumental Conducting Techniques	3 hours
MUPF 478	Choral Conducting Techniques	3 hours
MUCT 313	Orchestration and Arranging	3 hours
	TOTAL	33 hours

Keyboard proficiency must be demonstrated by passing a piano proficiency examination. Four (4) hours of keyboard secondary may be used in lieu of the proficiency examination. The four hours of keyboard may not be used as part of the applied music requirement in the Vocal/General Endorsement.

Vocal/General Endorsement

A. Applied Music Concentration Voice

Applied Concentration	14	hours
Appropriate Ensemble(s)	8	hours
Vocal and General Methods including:		
MUED 231 Music Methods in Elem. School	2	hours
MUED 317 Voice Pedagogy	2	hours
MUED Elective	2	hours
MUED 439 Student Teaching Seminar	1	hour
Music Elective	4	hours
Singer's Diction	2	hours
TOTAL	35	hours

B. Applied Music Concentration Keyboard

Applied Concentration (Piano or Organ)	14	hours
Applied Concentration (Voice)	4	hours
Appropriate Ensemble(s)	8	hours
Vocal and General Methods including:		
MUED 231 Music Methods in Elem. School	2	hours
MUED 317 Voice Pedagogy	2	hours
MUED 316 Piano Pedagogy (Piano Concentration) or		
MUED 318 Organ Pedagogy (Organ Concentration) .	2	hours
MUED 439 Student Teaching Seminar	1	hour
Service Playing (Organ Majors Only)	2	hours
TOTAL	33-35	hours

Instrumental Endorsement

Applied Music Concentration

(one instrument: wind, string, or percussion)	14	hours
Appropriate Ensemble(s)	8	hours
Secondary Instrument Instruction		
(must include at least two areas, excluding keyboard) .	6	hours
Instrumental Music Methods and Materials	6	hours
MUED 439 Pre-Student Teaching Seminar	1	hour
TOTAL	35	hours

Vocal/General and Instrumental Endorsement

An applicant for endorsements in both areas above may complete a minimum of ten semester hours in methods and materials, provided both are represented.

Education Core: (Before taking education courses, the student must apply to the Education Department for admission to the Teacher Education Program. Before the end of the junior year, the student must

apply to the Education Department for admission to the professional semester.)

EDUC 125	Foundations of Education	3	hours
EDUC 134	Principles of Christian Education	2	hours
EDUC 217	Psychological Foundations of Education	3	hours
EDUC 240	Education of the Exceptional Student .	2	hours
EDUC 356	Tests and Measurements	2	hours
EDUC 427	Current Issues in Education	2	hours
EDUC 432	Reading in Secondary School	2	hours
EDUC 468	Student Teaching, 7-12	6	hours
		<hr/>	
		22	hours

MUSIC EDUCATION

MUED 439	Pre-Student Teaching Seminar	1	hour
MUED 231	Music Methods in Elementary School Pedagogy, or Materials and Methods . .	6	hours
		<hr/>	
		7	hours

TYPICAL SEQUENCE OF COURSES FOR

B.Mus. MUSIC EDUCATION

YEAR 1		Semester 1st 2nd		YEAR 2		Semester 1st 2nd	
MUCT 111-112	Music Theory I, II	3	3	MUCT 211-212	Adv Mus Theory III, IV	3	3
MUCT 121-122	Aural Theory I, II	1	1	MUCT 221-222	Adv Aur Theory III, IV	1	1
ENGL 101-102	College Composition	3	3	MUHL 320, 321	History of Music	2	2
EDUC 134	Princ of Christian Ed	2		MUPF 477, 478	Cond Tech	3	3
EDUC 125	Foundations of Ed		3	RELT 138	Adventist Heritage	3	
RELT 255	Christian Beliefs		3	MUPF 189	Applied Concentration	2	2
MUPF 189	Applied Concentration	2	2		Music Ensemble	1	1
	Music Ensemble	1	1		Secondary Inst	1	1
	Area C-1, History				Area G-3, Rec Skills		1
	OR	3			Music Ed Elective	2	2
	Area C-2, Poli Sci/Econ					<hr/>	<hr/>
	Area G-3, Rec Skills	1				18	16
		<hr/>	<hr/>				
		16	16				

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YEAR 3			Semester		YEAR 4			Semester	
			1st	2nd				1st	2nd
MUHL 320, 321	History of Music		2	2	MUHL 322, 323	History of Music		2	2
MUPF 389	Applied Concentration		1	1	MUCT 313	Orch & Arr			
	Music Ensemble		1			OR			3
	Area B, Religion		3		MUCT 413	Anal of Mus Form			
	Area E, Natural Sci		3	3	MUPF 389	Applied Concentration		1	1
	Area F, Behav/Fam/Hlth Sci		3	3		Senior Recital			
	Area C-2, Poli Sci/Econ			3		Area B, Religion (U.D.)			3
	Minor or Elective		3	4		Minor or Elective			10
			16	16					9
									16
									15

See pages 12, 13 and 15-18 for general degree and general education requirements. Note especially requirements for the make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Music Minor: Eighteen hours including the following:

MUCT 111-112 — Music Theory I and II	6 hours
MUHL 115 — Listening to Music	3 hours
MUPF 189 — Concentration	2 hours
MUPF 477 or 478 — Instrumental or Choral Conducting Techniques	3 hours
Music Course Electives (including three hours upper division)	4 hours
	<u>18 hours</u>

MUSIC THEORY

MUCT 100. Introduction to Music Theory 2 hours

A study of the rudiments and basic vocabulary of music theory. Does not apply toward a music major or minor. This is a computer assisted course. (Spring, Summer)

MUCT 111-112. Music Theory I and II 3,3 hours

Prerequisite: MUCT 100 or examination.

A study of the elements which render music of all periods aurally and visually comprehensible, within simple forms and a variety of textures from one to four voices. Music Theory I may not be repeated more than once. (Fall, Spring)

MUCT 121-122. Aural Theory I and II 1,1 hours

A laboratory for the development of keyboard and sight-singing skills related to the materials introduced in MUCT 111-112. Music majors must take this concurrently with MUCT 111-112. This is a computer assisted course. (Fall, Spring)

MUCT 211-212. Advanced Music Theory III and IV 3,3 hours

Prerequisite: MUCT 111-112.

An expanded and intensified study of the structure of music as begun in MUCT 111-112. In MUCT 212, contemporary music is emphasized. (Fall, Spring)

MUCT 221-222. Advanced Aural Theory III and IV 1,1 hours

Keyboard and sight-singing applications of materials studied in MUCT 211-212. Music majors must take this concurrently with MUCT 211-212. This is a computer assisted course. (Fall, Spring)

MUCT 313. Orchestration and Arranging 3 hours

Prerequisite: MUCT 111-112.

The ranges, capabilities and limitations, and transpositions of orchestra and band instruments. Idiomatic scoring of short works for vocal and instrumental chamber groups, small orchestra, and band. Performance of exercises and analysis of scores is emphasized. (Spring, even numbered years)

MUCT 413. Analysis of Music Form 3 hours

Prerequisite: MUCT 211-212 or permission of instructor.

An analytical study of musical structure from the smallest units of form to the more complex music of all historical periods. (Fall, odd numbered years)

MUCT 295/495. Directed Study 1-3 hours

Individual study open to music majors and other qualified students. Content to be arranged. Approval must be secured from the division chairman prior to registration. May be repeated up to a total of three hours. (Fall, Spring, Summer)

MUSIC HISTORY**MUHL 115. Listening to Music (D-3)** 3 hours

A course designed to acquaint the student with the major composers, musical styles, and forms of Western music. Two listening periods per week are required. Does not apply toward a music major. (Fall, Spring)

MUHL 215. Music in the Christian Church (D-3) 2 hours

An historical and philosophical survey of music in the Christian Church with particular emphasis on hymnology. (Spring)

MUHL 320. Chant to Chanson, 600 to 1450 (D-3), (W) 2 hours

Prerequisite: MUHL 115, MUCT 111-112, or permission of instructor.

The development of musical style, beginning with plainsong and its notation, and continuing with the growth of polyphony and the appearance of secular forms. Special emphasis will be given to the evaluation of modern editions of music, particularly of the Ars Nova, and to investigation of problems in performance practice. (Fall, 1989)

MUHL 321. Frottola to Fugue, 1450-1700 (D-3), (W) 2 hours

Prerequisite: MUHL 115, MUCT 111-112, or permission of instructor.

National styles of composition throughout the Renaissance and the emergence of new ideas, particularly the monodic revolution and its resulting new form, opera. The development of the theory of common practice and the major changes in notational methods, as well as a survey of evolution of musical instruments during this period. (Spring, 1990)

MUHL 322. Suite to Symphonic Poem, 1700-1900 (D-3), (W) 2 hours

Prerequisite: MUHL 115, MUCT 111-112, or permission of instructor.

The centrality of sonata form as the basis of chamber and orchestral literature; the appearance of significant small forms (as the lied and the piano piece); the analysis of representative works from all major schools. (Fall, 1990)

MUHL 323. Diverse Musical Systems, 1900-present (D-3), (W) 2 hours

Prerequisite: MUHL 115, MUCT 111-112, or permission of instructor.

A study of systems replacing tonality, including aleatoric and dodecaphonic to minimalistic; broadening of musical bases, such as the influence of folk music and non-Western theories. Projects suitable for this semester might include studies of women in music, American music, or minorities. (Spring 1991)

MUHL 425. Topics in Music 1-3 hours

Selected topics in music presented in a classroom setting. Subjects covered will determine how the class applies to the major. This course may be repeated for credit.

MUSIC EDUCATION

MUED 136. String Materials and Methods 2 hours

A study of the stringed instruments, including methods and materials for class and private instruction. Observation of classroom and private instruction is required. (Spring, even numbered years)

MUED 146. Brass Materials and Methods 2 hours

A study of tone production, performance techniques, embouchure, fingerings, practical pedagogic technique, and simple repairs. A survey of literature for the instruments and evaluation of teaching methods. Observation of classroom and private instruction is required. (Fall, even numbered years)

MUED 156. Woodwind Materials and Methods 2 hours

A study of tone production, embouchure, fingerings, practical pedagogic technique, and simple repairs. A survey of the literature for the instruments and evaluation of teaching methods. Observation of classroom and private instruction is required. (Spring, odd numbered years)

MUED 166. Percussion Materials and Methods 2 hours

A study of percussion instruments, including methods and materials for class and private instruction. Observation of classroom and private instruction is required. (Fall, odd numbered years)

MUED 231. Music Methods in the Elementary School 2 hours

Prerequisite: MUCT 100 (or permission of instructor) or MUHL 115.

A course designed to prepare teachers to direct the music activities in the elementary school. The content includes fundamentals, appreciation, singing, playing, and rhythmic activities. Observation and participation in the music program of the elementary school is required. Two hours lecture and one hour laboratory work per week. (Fall, Summer)

MUED 316. Piano Pedagogy 2 hours

Prerequisite: Two hours of MUPF 189 or equivalent.
 Methods, materials, and procedures for private and class piano instruction; planning a complete program for pupils on various grade levels including technic, repertoire, and musicianship. Observation and teaching are required. (Fall, odd numbered years)

MUED 317. Voice Pedagogy 2 hours

Prerequisite: Two hours of MUPF 189 or equivalent and permission of instructor.
 Methods, materials, and procedures for private and class voice instruction; testing and classification of voices; physiological and psychological problems of voice production and diction. Observation and teaching are required. (Spring, odd numbered years)

MUED 318. Organ Pedagogy 2 hours

Prerequisite: Two hours of MUPF 189 or equivalent.
 Methods, materials, and procedures for instruction in organ; accompaniment of church services; registration of organ literature on various types of organs. Observation and teaching are required. (Fall, even numbered years)

MUED 439. Pre-Student Teaching Seminar 1 hour

Prerequisite: Admission to Teacher Education.
 A seminar in which the student is oriented to student teaching, including curriculum, lesson planning, professional relationships, and other matters related to student teaching. (Spring)

APPLIED MUSIC**MUPF 108. Group Instruction (G-1)** 1-2 hours

Beginning voice and beginning piano only. A minimum of four hours of practice and/or listening outside of class is required. (Fall, Spring)

MUPF 129. Secondary (G-1) 1-2 hours

Private instruction in voice, piano, organ, or orchestral instrument. One-half hour lesson and a minimum four hours practice per week are required for each hour of credit granted. (Fall, Spring, Summer)

MUPF 189. Concentration (G-1) 1-2 hours

Prerequisite: Performance examination for freshman standing.
 Private instruction in voice, piano, organ, or orchestral instrument. One-half hour lesson and a minimum four hours practice per week are required for each hour of credit granted. Private lessons for voice majors and minors include attendance at a weekly voice performance class. (Fall, Spring, Summer)

MUPF 227. Singers Diction 1 hour

A study of the pronunciation of English and Italian. (Fall, even numbered years)

MUPF 228. Singers Diction **1 hour**
 A study of the pronunciation of German and French. (Fall, odd numbered years)

MUPF 279. Service Playing (G-1) **1 hour**
 Prerequisite: Two hours MUPF 189 (organ) or permission of instructor.
 The development of skills requisite to playing both liturgical and non-liturgical services, including hymn playing, choral and solo accompanying, conducting from the console, improvisation and modulation, and selection of appropriate preludes, offertories, and postludes. Performance experience required. (Fall, Spring)

MUPF 329. Secondary (G-1) **1-2 hours**
 Private instruction in voice, piano, organ, or orchestral instrument. One-half hour lesson and a minimum four hours practice per week are required for each hour of credit granted. (Fall, Spring, Summer)

MUPF 389. Concentration (G-1) **1-2 hours**
 Prerequisite: Four hours MUPF 189.
 Private instruction in voice, piano, organ, or orchestral instrument. One-half hour lesson and a minimum four hours practice per week are required for each hour of credit granted. Private lessons for voice majors and minors include attendance at a weekly voice performance class. (Fall, Spring, Summer)

MUPF 477. Instrumental Conducting Techniques (G-1) **3 hours**
 Prerequisite: MUCT 112 or permission of instructor.
 Basic conducting techniques including beat patterns, cues, and expressive gestures, and instrumental problems. Experience in conducting instrumental ensembles is included. (Fall, odd numbered years)

MUPF 478. Choral Conducting Techniques (G-1) **3 hours**
 Prerequisite: MUCT 112 or permission of instructor.
 Basic conducting techniques including beat patterns, cues, and expressive gestures, and vocal problems. Experience in conducting choral ensembles is included. (Spring, even numbered years)

Courses MUPF 108, 129, and 329 are open to any student of the College as elective credit toward the B.A. or B.S. degree. The music major or minor may not apply these toward his applied music concentration. Students desiring to study organ must pass the Functional Piano Examination.

Courses MUPF 189 and 389 are courses primarily for the music major and minor, but they may be elected by anyone who passes the examination for freshman standing. Jury examinations are required with these course numbers.

The following performance areas may be studied: voice, piano, classical guitar, folk guitar, organ, violin, viola, cello, double bass, flute, oboe, clarinet, saxophone, bassoon, trumpet, French horn, trombone, baritone tuba, and percussion instruments.

CHORAL ENSEMBLES

Choral ensembles are open to all college students through audition. Each ensemble meets three periods per week and offers one hour credit each semester. Regular attendance at performances and rehearsals, including dress rehearsals, is required.

Voice majors are required to sing in the Southern Singers for two years.

Ensembles for which academic credit is granted are organized and sponsored by the members of the music faculty.

MUPF 118/318. Schola Cantorum (G-1) 1 hour

A small mixed-voice choir which specializes in performing sacred music of the Renaissance, Baroque, and Romantic eras.

MUPF 148/348. Something Special (G-1) 1 hour

A small mixed-voice choir which performs both sacred and secular music in many styles. The music is frequently choreographed.

MUPF 158/358. Die Meistersinger Male Chorus (G-1) 1 hour

A male-voice choir which performs music of all styles and style periods.

MUPF 168/368. Southern Singers (G-1) 1 hour

A large mixed-voice choir which performs music of all style periods.

MUPF 188/388. Vocal Ensemble Experience (G-1) 1 hour

A course designed to provide credit for participants in major choral works, musical productions, and other department-sponsored vocal activities. This course does not fulfill the music ensemble requirement for music majors. (Fall, Spring)

INSTRUMENTAL ENSEMBLES

Instrumental ensembles are open to all college students through audition. Each ensemble meets three periods per week and offers one hour credit each semester. Regular attendance at rehearsals is required.

Course numbers MUPF 178 and 378 do not fulfill the music ensemble participation requirement for music majors except those taking a keyboard concentration. Music majors other than those taking a keyboard concentration who wish Instrumental Ensemble Experience credit must be registered concurrently in Concert Band or Symphony Orchestra.

Ensembles for which academic credit is granted are organized and sponsored by members of the music faculty.

MUPF 128, 328. Concert Band (G-1) 1 hour

(Fall, Spring)

MUPF 138, 338. Symphony Orchestra (G-1) **1 hour**
(Fall, Spring)

MUPF 178, 378. Instrumental Ensemble Experience (G-1) **1 hour**

A course designed to provide credit for chamber ensembles or, in the case of keyboard majors, significant accompanying experience. (Fall, Spring)

(D-3), (G-1), (W) See pages 15-18 for explanation of General Education requirements.

NURSING

Chairman: Katie Lamb

Associate Chairman: Marsha Rauch (Orlando)

Collegedale Faculty: Leona Gulley, Dorothy Hooper, Shirley Howard, Bonnie Hunt, Beth Jedamski, Terry Martin, Caroline McArthur, Laura Nyirady, Georgia O'Brien, Lola Scoggins, Elvie Swinson
Orlando Faculty: Flora Flood, Cheri Thompson, Erma Webb, Ruth West

The nursing program at Southern College is a 2 + 2 program that leads to a baccalaureate degree in nursing with the option to exit at the associate degree level. The holders of an associate degree from a state approved program in nursing may progress into upper division nursing. Licensed diploma graduates and associate degree graduates from a non-NLN accredited program will be evaluated on an individual basis.

The curriculum in the lower division leads to an Associate of Science degree in nursing which may be completed in two academic years, plus summer courses. At this time the student is eligible to write state board examinations to become a registered nurse.

A well-equipped learning center and a skills laboratory are provided to assist students in learning experiences.

COLLEGEDALE-BASED ASSOCIATE AND BACCALAUREATE PROGRAMS

The curriculum in the upper division provides the student an in-depth study in clinical nursing in addition to prescribed courses. Associate degree graduates from non-NLN accredited programs and diploma graduates will be required to participate in validation procedures designed to evaluate their previous program of study.

A new class is accepted for lower division in the fall semester of each year with a limited size of 60 students due to available clinical facilities and teachers. The upper division class is not limited in size.

CONSORTIUM BACCALAUREATE PROGRAM

The program enables registered nurses employed on a full-time basis at a member hospital to obtain a baccalaureate degree on a part-time basis. All upper division nursing classes are offered in the evening. One course is offered each fall and winter semester and one course during a summer session for a given group. This program is offered in Collegedale and Orlando.

Admission and progression criteria are the same as the campus-based baccalaureate program with the following exceptions:

1. Math requirement: Math requirement is waived for RN/BS students.
2. Residence requirements: The requirement that the last thirty (30) semester hours must be taken in residence has been adjusted to

allow the consortium students to take general education courses, with the exception of Christian Ethics, at another college concurrently with clinical nursing courses.

3. Transfer work: Seventy-four (74) semester hours from a junior college are allowed which will include 68 hours for the equivalent of an Associate Degree plus six semester hours of Biochemistry.
4. Religion: Three hours are permitted to be taken at a local college or university. Three hours Christian Ethics (RELT 373) must be taken at Southern College.
5. Writing courses: Only two writing emphasis courses rather than three will be required.

POLICIES

Students who are admitted to Nursing are considered adequately mature to realize the importance of accepting personal responsibility for their learning and professional behavior.

The Division of Nursing Student Handbook contains the policies of the department. Each student contracts to abide by the regulations as outlined. The faculty reserves the right to withdraw or revise policies as deemed necessary. The Collegedale- and Orlando-based programs are governed by the same policies.

Transportation for clinical appointments is not provided for the students enrolled in upper division nursing courses. Students will be expected to provide their own transportation or make arrangements to share this expense with fellow students in the same course.

Because regular tuition charges and fees cannot cover the total cost of nursing education, an additional fee is charged as a "Nursing Education Fee" each semester to help offset the cost (see Special Fees and Charges under Financial Policies section of bulletin).

The Tennessee State Board of Nursing, Florida State Board of Nursing, and other State Boards reserve the right to deny licensure in their states if the applicant has an unresolved felony on record in any state.

The Nursing Department reserves the right to revise, add, or withdraw courses as necessary to ensure a quality nursing program.

ACCREDITATION

The program in nursing is fully accredited by the Board of Review for Baccalaureate and Higher Degree Programs and Associate of Science Degree Programs of the National League for Nursing. It is recognized by the Board of Regents of the Department of Education of the General Conference of Seventh-day Adventists, and it is approved by the Tennessee Board of Nursing and Florida State Board of Nursing.

PROGRAMS IN NURSING

Major (B.S.): Thirty-six hours for the Bachelor of Science degree after

completion of the Associate of Science degree at Southern College or the equivalent* including NRSG 325, 326, 327, 335, 387, 389, 394, 484, 485. Required cognates: RELT 373, CHEM 111, 112, 114, and three hours upper-division Behavioral Science. MATH 215 Statistics is a required course but is not considered a cognate. General education requirements include an additional three hours Area B, three hours Area C or D, and three hours Area D to make a total of 130 semester hours of which 40 hours are upper division.

*Graduates of a state-approved associate degree nursing program will be considered to have met the general education requirements for the first two years of the program. If an Area C-1 course was not included in the associate degree program, however, it must be taken in fulfillment of the Bachelor of Science degree general education requirements of "3 hours Area C or D." A maximum of 74 semester hours will be accepted from a junior college.

Major (A.S.): Thirty-five hours for the Associate of Science degree including NRSG 104, 105, 114, 115, 213, 215, 217, 220, 223. Required cognates: BIOL 101-102, 125, PSYC 128, SOCI 125, FDNT 125. General education courses for Areas A, B, C, E, and F are the same as for the other disciplines of the College. Students are exempt from general education courses for Areas D and G. A total of 69 semester hours is required for the Associate of Science degree.

TYPICAL SEQUENCE OF COURSES FOR A.S. AND B.S. NURSING

The first two years of the program lead to the Associate of Science degree and the last two years to the Bachelor of Science degree. Must include at least 69 semester hours for the associate and 130 (40 of which are upper division) for the baccalaureate degree, and make-up of any admissions deficiencies.

SUMMER

BIOL 101 Anatomy and Physiology I 3

YEAR 1

		Semester 1st 2nd
ENGL 101	College Composition	3
FDNT 125	Nutrition	3
BIOL 102	Anatomy and Physiology II	3
NRSG 104	History and Trends of Nursing	1
NRSG 105	Foundations of Nursing	5
NRSG 114	Med-Surg I	5
NRSG 115	Med-Surg II	5
	Area B, Religion	3
	Math	3
		<hr/> 15 16

YEAR 2

		Semester 1st 2nd
ENGL 102	College Composition	3
NRSG 213	Nrsg of the Childbearing Fam	4
NRSG 215	Parent-Child Nursing	4
NRSG 217	Mental Health	4
SOCI 125	Sociology	3
NRSG 220	Med-Surg III	6
NRSG 223	Nursing Seminar	1
	Area B, Religion	3
	Area C-1, History	3
		<hr/> 15 16

SUMMER

BIOL 125	Microbiology	4
PSYC 128	Developmental Psych	3
		<hr/> 7

PREREQUISITE TO YEAR 3

CHEM 111 Survey of Chemistry 3

YEAR 3		Semester 1st 2nd		YEAR 4		Semester 1st 2nd	
NRSG 326	Concepts of Prof Nursing	4		NRSG 387	Home Health/Gerontology		3
NRSG 327	Nursing Assessment	4		NRSG 389	Pharmacology		2
CHEM 112, 114	Survey of Chemistry and Lab	4		NRSG 394	Nurs Research Methods		3
RELT 373	Christian Ethics	3			Area B, Religion (U.D.)		3
NRSG 325	Advanced Physiology		4		Area F-1, UD Behavioral Sci		3
NRSG 335	Community Health		6	NRSG 484	Advanced Nursing Practice		6
MATH215	Statistics		3	NRSG 485	Management		4
	Area C-1, History or Area D (Area C-1 unless one was included in A.S. degree.)				Area D, Lang/Lit/Fine Arts/ Speech		3
			3				14
			15				16

LOWER DIVISION ADMISSION AND PROGRESSION REQUIREMENTS

Admission and progression requirements are the same for both Col-
legedale- and Orlando-based programs. Minimum requirements for ad-
mission to the clinical area of the Department of Nursing are listed
below. The final decision on acceptance and continuation in nursing
is made by the Department of Nursing. Declaration as a nursing major
is not the equivalent of acceptance to the Department of Nursing.

1. Acceptance to Southern College and hold a diploma from a four-
year accredited high school or the equivalent.
2. High school grade point average of 2.50* minimum on solids
(math, science, English, history, foreign language).
3. A grade of "C -" or better in each semester of high school chemis-
try. A student who does not meet the high school chemistry require-
ment may remove this deficiency by taking CHEM 111 and earning
a "C -" or better.
4. Minimum ACT standard score of 12 in Math and 17 in English
and composite.
5. A student who does not meet the high school grade point average
or ACT requirements may take a minimum of 12 semester college
hours per semester in required courses leading to nursing (includ-
ing three hours each of English and Math) and achieve a current
and cumulative grade point average of at least 2.50* on nursing
cognate courses and on solid courses (math, science, English, his-
tory, foreign language) before being considered for clinical nursing
courses.
6. No more than two courses may be repeated. Only one may be a
nursing course.
7. A grade of at least C (2.00) is required in each nursing course for
progression and/or graduation. A grade of at least "C -" is required
in each nursing cognate with a minimum cumulative grade point

* On a 4.00 scale

average of at least 2.25* in the cognates for admission and progression in nursing. (Cognate courses are Anatomy and Physiology, Nutrition, Developmental Psychology, Microbiology, and Sociology.

8. A cumulative grade point average of at least 2.25 is required both in nursing and in the cognates for graduation.
9. Students with previous college work must have a minimum current and cumulative grade point average of 2.50* on nursing cognate courses and on solid courses (math, science, English, history, foreign language) before being considered for clinical nursing courses.
10. Students whose native language is other than English must achieve at least 90 on the Michigan English Proficiency Test or its equivalent.
11. Achieve a score of 20th percentile on the Nelson-Denny reading test prior to admission. If the score falls between the 20-34th percentile level, the student will be admitted on probation.
12. Students are required to demonstrate satisfactory performance on standardized tests. Remedial work and/or delay in progression in the program will be required if performance level is not achieved. Failure to achieve the required score on the comprehensive examinations (see NRSG 223, Nsg-Seminar) will result in delay in graduation and requires the successful completion of NRSG 050.
13. Following application to the Nursing Admissions Committee, transfer students from another major or another college will be evaluated individually and accepted on a space available basis.
14. Any cognate course taken off campus during the time the student is enrolled at Southern College (school year or summer) must be approved by the Nursing Progressions Committee.
15. The applicant must show evidence of physical, mental, and moral fitness. Further references or information may be required regarding character, attitude, or coping ability in case of a question in these areas.
16. A student who has successfully completed a practical nurse program may receive four (4) credit hours of advanced placement in nursing and will articulate directly into the second semester of nursing upon successful completion of the course Associate Nurse Perspectives, NRSG 103. Prerequisites for NRSG 103 include passing the Nursing Mobility Profile I examination at a predetermined level and a clinical skills examination over basic skills common to all areas of nursing. After the student articulates into the second semester of nursing, the student becomes a part of the generic associate degree program.

* On a 4.00 scale

The following should be sent to the Director of Admissions by March 1: (1) application to the college, (2) application to the Department of Nursing, (3) transcripts, (4) ACT scores. **An advance payment must be received by June 1 to hold placement in the class once a student has been accepted.** Students who for various reasons are not able to complete a semester or do not progress with their class, cannot be assured placement in their choice of subsequent class.

CURRICULUM (First and Second Year)

Completion of these requirements leads to an Associate of Science degree and eligibility to sit for state board examinations.

Number of Hours Required:

Nursing 35

Behavioral Science 6

Natural Science 13

General Education 15

NRSG 050. Nursing N-CLEX Review (non-credit) 3 hours

This course is designed to review and consolidate theoretical components of the first two years of the nursing program. The content focuses upon medical-surgical, obstetrical, mental health, and the nursing of children. The student is expected to perform satisfactorily on a comprehensive examination. Failure to meet this requirement results in termination from the nursing program.

NRSG 103. Associate Nurse Perspectives 1 hour

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

This course is designed to supplement and prepare the Licensed Practical Nurse for advanced placement and career mobility. It will provide an understanding of the associate nurse role, familiarize the student with philosophy of spiritual care, and give an orientation to the program and its philosophy and conceptual framework.

NRSG 104. History and Trends of Nursing 1 hour

An introduction to the profession of nursing, including an overview of nursing history, nursing organizations, educational, legal and ethical issues, and opportunities of the profession. (Fall)

NRSG 105. Foundations of Nursing 5 hours

Prerequisites: Chemistry (high school or equivalent), BIOL 101.

Co-requisites: FDNT 125, BIOL 102, NRSG 104.

This course is an introduction to the physical, psychosocial, and spiritual aspects of health care. The student develops an understanding and utilization of the nursing process, and acquires basic nursing skills common to all areas of nursing with an emphasis on the adult life cycle. Three hours theory, two hours clinical. (Fall)

NRSG 114. Medical-Surgical Nursing I 5 hours

Prerequisite: BIOL 101, FDNT 125, NRSG 104, 105.

This course provides students with the theory and practice of nursing which include selected basic needs of adults at various points on the wellness-illness continuum. This includes focusing on those with selected medical-surgical problems. The nursing process is utilized to promote physical, psychosocial, and spiritual health, intervene in illness, and assist in rehabilitation. Two and three-fourths hours theory, two and one-fourth hours clinical. (Spring)

NRSG 115. Medical-Surgical Nursing II 5 hours

Prerequisite: NRSG 104, 105, 114, BIOL 102, PSYC 128.

This course provides students with the theory and practice of nursing continuing with adult needs at various points on the wellness-illness continuum. This includes focusing on the nursing process as applied to individuals experiencing select medical/surgical interferences of increased complexity; promoting physical, psychosocial, and spiritual health; intervening in illness; and assisting in rehabilitation. Two and three-fourths hours theory, two and one-fourth hours clinical. (Spring)

NRSG 213. Nursing of the Childbearing Family 4 hours

Prerequisite: BIOL 102, FDNT 125, NRSG 115, PSYC 128.

This course provides nursing students with theory and practice in the care of childbearing families. This includes promoting physical, psychosocial, and spiritual health of expectant mothers and their infants before, during and immediately following delivery, utilizing the nursing process. Two and one-half hours theory, one and one-half hours clinical. (Fall)

NRSG 215. Parent-Child Nursing 4 hours

Prerequisite: PSYC 128, NRSG 114, 115, BIOL 102.

This course provides nursing students with the theory and practice of family-centered care of children at different points on the wellness-illness continuum. Two and three-fourths hours theory, one and one-fourth hours clinical. (Fall)

NRSG 217. Mental-Health 4 hours

Prerequisites: NRSG 114, 115, BIOL 102, PSYC 128.

This course provides students with the opportunity to utilize the nursing process in intervening with clients throughout the life span with emphasis on specific psychosocial needs at different points on the wellness-illness continuum. Two and one-half hours theory, one and one-half hour clinical. (Fall)

NRSG 220. Medical-Surgical III 6 hours

Prerequisite: BIOL 125, NRSG 114, 115, 215, 217.

This course provides students with the theory and practice of utilizing the nursing process in dealing with complex needs related to psychosocial, physical, and spiritual aspects of individuals who have medical-surgical interferences. The student is introduced to leadership concepts. Three hours theory, three hours clinical. (Spring)

NRSG 223. Nursing Seminar

1 hour

This course is designed to aid the student in validating and consolidating previous learning experiences. The seminar will include intensive review of all areas of nursing. Comprehensive examinations will be given at the culmination of the seminar. The student must perform at a pre-specified level on the comprehensive examinations. If a student fails to achieve this level, a grade of "I" or incomplete will be given for the course. Removal of this "I" will necessitate the student's successful completion of the non-credit course NRSG 050 and graduation will be delayed. (Spring)

UPPER DIVISION ADMISSION AND PROGRESSION REQUIREMENTS

Admissions:

All students wishing to enter the upper division nursing courses must send an application to the division's Coordinator of Admissions. The final decision on acceptance and continuation in nursing is made by the Department of Nursing. Declaration as a nursing major is not the equivalent of acceptance to the Department of Nursing. **Upon acceptance to upper division nursing, courses currently listed in the catalog will be required of all students.**

Associate Degree graduates from a non-NLN accredited program and Diploma graduates are required to successfully complete validation examinations at a specified level prior to registering for any clinical nursing course. Students are responsible for the cost of these examinations.

Minimum requirements for admission to upper division nursing are listed below.

1. Acceptance to Southern College.
2. Minimum grade point average of 2.25 for lower division courses in nursing with no grade below a "C".
3. Minimum cumulative grade point average of 2.25 with no grade below "C-" for lower division cognate courses.
4. Students whose native language is other than English must achieve at least 90 on the Michigan English Proficiency Test or its equivalent. If the student fails to achieve the above score, he must take remedial work in written and spoken English and repeat the proficiency test, achieving the above score before entering the nursing program.
5. Students are required to demonstrate satisfactory performance on standardized tests. Remedial work will be required if performance level is not achieved.
6. Any cognate course taken off campus during the time the student is enrolled at Southern College (school year or summer) must be approved by the Nursing Progression Committee.

7. The applicant must show evidence of moral, physical, social, and intellectual maturity. Further references or information may be required regarding character, attitude, or coping ability in case of a question in these areas.
8. Students will maintain a current CPR certificate throughout their upper division program.
9. Eligibility for Licensure:

Applicants to be considered for admission to junior standing in nursing must either have a current license to practice as a registered nurse in the U.S. or, if a new graduate or foreign student, must be eligible to sit for state boards. A student must pass NCLEX-RN examinations before registering for NRSG 484 and 485.

10. Experience:
 - A. Student who has graduated within five years prior to application.
 1. Satisfactory clinical performance and character references are required from basic nursing program.
 2. Satisfactory work performance and character references are required from employer(s). Students who have graduated within the previous twelve months will be exempt from the work requirement.
 - B. Student who has graduated more than five years prior to application.
 1. Minimum of one year satisfactory work experience in nursing for each five years since graduation and one year must be in the last five years.
 2. Satisfactory work performance and character references are required from employer(s).

11. Nursing Credit:

Graduates of state approved schools will be evaluated on an individual basis. A maximum of thirty-five semester hours of nursing credit may be given provided that criterion #2 has been met (which is equal to the requirements of the first two years of nursing at Southern College).

12. General Education and Cognates:

- A. Associate Degree.

Graduates of a state approved associate degree program will be considered to have met general education requirements for the first two years of the program provided that criterion #3 has been met. If an Area C-1 course was not included in the associate degree program, it must be taken in fulfillment of the Bachelor of Science degree general education requirements of "3 hours Area C or D."

- B. Diploma Graduate.

1. Credit is acceptable for courses comparable to those required

- at Southern College if received from an accredited senior or junior college or by examination according to the policy stated in the bulletin.
2. All cognates for the first two years must be completed before entering junior nursing courses. General education requirements may be taken concurrently.
 - C. CHEM 111 must be completed before entering junior level nursing courses.
13. Progression:
- A. No more than two courses may be repeated. Only one may be a nursing course.
 - B. A grade of at least C (2.00) is required in each nursing course for progression and graduation. A grade of at least C- is required in each nursing cognate with a minimum cumulative grade point average of at least 2.25* in the cognates for admission, progression, and graduation in nursing. (Cognate courses are CHEM 111 and 112/114; RELT 373.)
 - C. Students are required to demonstrate satisfactory performance on standardized and validating tests. Remedial work will be required if performance level is not achieved.

CURRICULUM (Third and Fourth Years)

Students must take a total of 130 hours required for graduation including 40 hours upper division.

Number of hours required after completion of the associate degree in nursing:

Nursing 36	Natural Sciences 7
Behavioral Science 3	**General Education 12
Mathematics 3	

NRSG 325. Advanced and Pathologic

Principles of Human Physiology

4 hours

Prerequisite or co-requisite: CHEM 112/114.

This course assists the student to integrate principles of physiology with clinical practice, to correlate physical manifestations with pathologic interferences, and to move toward more independent predictive care of patient/client. Four hours theory. (Spring, arranged as needed for consortium students.)

NRSG 326. Concepts in Professional Nursing

4 hours

A course designed to assist the registered nurse student in the transition of learning from an associate degree or diploma program to the baccalaureate approach to nursing. Focus will be on the development and presentation of concepts and current issues related to professional nursing. (Fall, arranged as needed for consortium students.)

*On 4.00 scale.

**One of the general education courses must be a writing course.

NRSRG 327. Nursing Assessment 4 hours

Prerequisite or co-requisite: NRSRG 326.

This course provides opportunities for creativity in the utilization of the expanding role of the clinical practitioner and enables the student to develop advanced skills in utilizing the nursing process through history taking, physical examination, health planning, and counseling of the patient/client. Three hours theory, one hour clinical. (Fall, arranged as needed for consortium students.)

NRSRG 335. Community Health Nursing 6 hours

Prerequisite: NRSRG 327; MATH 215 (desirable).

A course which includes concepts and practice of the nursing process with emphasis on moving individuals, families, and communities toward their optimal level of functioning on the wellness-illness continuum. This course combines community and mental health concepts. Three hours theory, three hours clinical. (Spring)

NRSRG 346. Community Health Nursing 3 hours

Prerequisite: NRSRG 327; MATH 215 (desirable).

A course which includes concepts of community health, with emphasis on community assessment and working with groups. Two hours theory, one hour clinical. (Arranged as needed for consortium students.)

NRSRG 347. Community Health Nursing 3 hours

Prerequisite: NRSRG 327, 346; MATH 215 (desirable).

A course which includes concepts and practice of the nursing process with emphasis on moving individuals, families and communities toward their optimal levels of functioning on the wellness-illness continuum. This course combines community and mental health concepts. One hour theory, two hours clinical. (Arranged as needed for consortium students.)

NRSRG 387. Home Health/Gerontology 3 hours

Prerequisite: NRSRG 327; NRSRG 335 or NRSRG 346/347.

A course providing the registered nurse student with theories and practice of caring for the client (ages cover the life span) requiring skilled nursing care in the home. Content will also include study of the active and non-active older adult. Two hours theory, one hour clinical. (Fall, arranged as needed for consortium students.)

NRSRG 389. Pharmacology 2 hours

Prerequisite: CHEM 111 and CHEM 112/114.

Study of pharmacologic concepts. Focus will include major classifications, pharmacokinetics, drug interactions, and nursing consideration. Two hours theory. (Fall, arranged as needed for consortium students.)

NRSRG 394. Nursing Research Methods (W) 3 hours

Prerequisite: MATH 215 and ENGL 102.

Scientific methods of inquiry are applied to nursing problems including framework for practice, principles of data treatment, and analysis. The student plans a research proposal. The course is designed to give the student the concepts, methods, and tools for intelligent participation in and application of research and evaluation. Three hours theory. (Fall, arranged as needed for consortium students.)

NRSG 484. Advanced Nursing Practice (Primary Care with Research Component) (W) 6 hours

Prerequisite: All 300 level nursing courses.

This course provides opportunity for the student to select an area of specialized interest in which to develop a broader scope of clinical competence. The choices of clinical areas may be limited due to the number of students in the semester. Content will focus on updating major theoretical areas and clinical skills. The scientific method of inquiry will be utilized in conducting a research project. Two hours theory, four hours clinical. (Spring, arranged as needed for consortium students).

NRSG 485. Management 4 hours

Prerequisite: All 300 level nursing courses.

This course provides the opportunity for the student to use independent judgment in developing beginning management skills. This goal will be accomplished primarily through the leadership modes, management and administrative experiences in selected clinical areas. Two hours theory, two hours clinical. (Spring, arranged as needed for consortium students).

NRSG 295/495. Directed Study 1-3 hours

Prerequisite: Approval of department chairman.

Individual study in an area of choice shall be worked out with the department prior to registration. Either upper or lower division credit may be earned. The area of directed study will appear on the transcript. No more than six hours directed study may be applied toward a degree.

(W) See pages 15-18 for explanation of General Education requirements.

THE ORLANDO CENTER

General Information

Southern College of Seventh-day Adventists offers at its Orlando Center an alternative to its main campus nursing program. It is administered by an associate chairman for the Department of Nursing. The program at the Orlando Center is an academic offering only and follows the same Seventh-day Adventist educational philosophy that guides the main campus. Only nursing and general education courses are offered which are part of the two degree programs at the Center: a Bachelor of Science and Associate of Science, majoring in nursing. The National League for Nursing accreditation status of the main campus applies fully to the Orlando Center. The Center has approval from the Tennessee State Board of Nursing, the Florida State Board of Nursing, and the Florida State Board of Independent Colleges.

Facilities

All facilities normally associated with the education of nurses are available at the Orlando Center. The college's main building houses administrative and teachers' offices, the library, a skills lab, and two

large classrooms. Other classrooms and lab facilities are located in the immediate vicinity. Clinical experience is available mainly at the Florida Hospital Medical Center located in close proximity to the Orlando Center offices.

Financial Information

Tuition charges are lower than those on the main campus due to the fact that the college offers an academic program only at the Orlando Center and not a student life program. Financial aid is available on the same basis as on the main campus. These charges are:

Tuition — A.S.: \$90.00 per credit hour

B.S.: \$55.00 per credit hour for employees of Florida Hospital

\$70.00 per credit hour for non-employees of Florida Hospital

Entrance Fee: \$400.00

Advance Payment to hold placement in class:

\$100.00 (non-refundable to those who do not enroll)

Employment is available at the Orlando Center to help students defray the cost of education. A scholarship program for eligible students is available through Florida Hospital.

Residence Hall

Florida Hospital Medical Center operates a residence hall. This is available on a first come, first serve basis. An application for the residence hall is included in the admissions packet for the Orlando Center. No obligation is assumed by Southern College of Seventh-day Adventists for student housing, nor Florida Hospital Medical Center for married student housing.

Admissions and Progression for Associate Degree Program

Students are admitted to and based at the Orlando Center for the entire program. One class, limited to 40 students, is admitted each fall semester of the academic year. Admission and progression requirements are the same as for the nursing program based on the main campus, (see CATALOG, pp. 194-196), with the following exceptions:

1. All application forms and materials are sent to the Orlando Center.
2. Students may transfer between the Orlando Center program and the Collegedale program with special permission only. Transfers may lengthen the student's time in the nursing program.
3. Completed medical and dental forms must be received prior to enrolling in the first clinical nursing course. Forms are sent to the student with the letter of acceptance. Health clearance is required before beginning care of patients. Students taking only general education courses must show evidence of current immunization.
4. Students who withdraw in good standing are eligible to return on a space available basis only.

5. Applications, transcripts from high school and other colleges, if applicable, and all other supporting documents must be received by March 1 for the fall class. Send to:

Admissions Secretary
Southern College of SDA
711 Lake Estelle Drive
Orlando, FL 32803

A non-refundable advance payment must be received by June 1 to hold placement in the class once a student has been accepted.

The philosophy and objectives for the nursing program are the same as the main campus nursing program. Identical courses are required in both programs with the exception that an additional course, Introduction to Psychology, PSYC 124, is required at the Orlando Center by the Florida State Board of Nursing. Thus 72 hours are required for graduation rather than 69 required of nursing students on the main campus. Other graduation requirements are identical. All diplomas and official transcripts are issued from the main campus.

Applicants wishing to attend general education courses only will be admitted to these classes on a space available basis.

ASSOCIATE OF SCIENCE DEGREE, With Major in Nursing

Orlando-Based Program:

Major: Thirty-five hours for the Associate of Science degree including NRSG 104, 105, 114, 115, 213, 215, 217, 220, 223. Required cognates: BIOL 101, 102, 125; PSYC 124, 128; SOCI 125; FDNT 125. General education requirements: Area A, B, C, E, and F as required for other disciplines of the college. Students are exempt from general education requirements for areas D and G. A total of 72 semester hours is required for the Associate of Science degree.

The Department of Nursing reserves the right to revise, add, or withdraw courses as necessary to ensure a quality nursing program. All hour values are in semester hours. Completion of these requirements leads to an Associate of Science degree and eligibility to set for the RN-NCLEX examination.

Curriculum

Number of Hours required:

Nursing 35

Behavioral Science 9

Natural Science 13

General Education 15

Pre-entrance Requirements: BIOL 101 and PSYC 124 are required prior to admission to the fall semester nursing classes either by transfer credit or course credit at Southern College, Orlando Center. Any chemistry deficiency must be completed in the same manner.

BACHELOR OF SCIENCE, With a Major in Nursing, Program

For information about the part-time program, contact:

**Associate Chairman
Nursing Department
Southern College of SDA
711 Lake Estelle Drive
Orlando, FL 32803**

PROGRAMS IN PHYSICS

Careers of SC physicists can also be seen by finding how these same physics graduates devoted their years of work. They gave 57 percent of their person-years to physics and closely related fields. If computer-related work is included, this devoted 50 percent. Their service in the remaining 30 percent of their person-years in the medical and a fraction of time devoted to the service of the Seventh-day Adventist Church, as measured by employment in the Church, was 35 percent.

mathematics for the education of the same total five Ph.D. degrees earned five M.A. and M.S. degrees in other areas of science and (with no overlap) eight Ph.D. degrees in physics. The 57 physics majors earned five M.A. and M.S. degrees in physics, 57 B.A. and B.S. degrees in physics were awarded by Southern College which they earned during the 30 years from May of 1958 to May of 1988.

Careers of SC physics graduates are depicted by the advanced degrees and medical procedures.

Advances in secondary school teachers who can teach physics will be even greater demand. Industry and health care systems depend, for example, on graduates who understand physics as well as engineering and medical procedures.

Employment opportunities for SC physics major graduates have been and continue to be excellent. Many physics professors in American universities will retire in the next decade, and replacements will be sought. The Seventh-day Adventist Church will soon be needing more science professors for the expanding system of colleges outside of North America.

Chairman: Ray Hellebrin
Faculty: Henry Kuhlman
Advisory Council: Orville Bigham, Bill
McCurdy, Randy Peterson, Cyril Roe

Chairman: Ray Hefferlin

Faculty: Henry Kuhlman

Advisory Council: Orville Bignall, Bill Johnston, Charles Lindsey, Bob McCurdy, Randy Peterson, Cyril Roe, Harold Schweinler

Employment opportunities for SC physic-major graduates have been, and continue to be, excellent. Many physics professors in American universities will retire in the next decade, and replacements will be sought. The Seventh-day Adventist Church will soon be needing more science professors for its expanding system of colleges outside of North America. Secondary school teachers who can teach physics will be in even greater demand. Industry and health care systems depend, for new advances, on graduates who understand physics as well as engineering and medical procedures.

Careers of SC physics graduates are depicted by the advanced degrees which they earn. During the 30 years from May of 1956 to May of 1986, 57 B.A. and B.S. degrees in physics were awarded by Southern College. The 57 physics majors earned five M.A. and M.S. degrees in physics and (with no overlap in persons) eight Ph.D. degrees in physics. They earned five M.A. and M.S. degrees in other areas of science and mathematics (or in the education of the same topics), five Ph.D. degrees in these areas, and one post-doctoral degree in chemistry. They earned six M.D. degrees, two D.D.S. degrees and one J.D. degree.

Careers of SC physicists can also be seen by finding how these same physics graduates devoted their years of work. They gave 57 percent of their person-years to physics and closely related fields. If computer-related work is included, they devoted 70 percent. They served much of the remaining 30 percent of their person-years in the medical arts. The fraction of time devoted to the service of the Seventh-day Adventist Church, as measured by employment in the Church, was 25 percent.

PROGRAMS IN PHYSICS

Major (B.A.): Thirty hours including PHYS 213-214, 310, 311-312, and 412. Computer courses are strongly recommended. TECH 114, 174, 149, and 249/349 are also recommended.

TYPICAL SEQUENCE OF COURSES FOR

B.A. PHYSICS

(Starting Odd Fall)

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
ENGL 101-102	College Composition	3	3	PHYS 211-212	General Physics	3	3
PHYS 155	Descriptive Astronomy		3	PHYS 213-214	General Physics Lab	1	1
MATH 181	Calculus I	4		CPTR 218	FORTRAN (or Pascal)	3	
MATH 182	Calculus II		3	MATH 218	Calculus III	3	
MATH 216	Set Theory and Logic		2	MATH 315	Differential Equations	3	
	Area B, Religion	3			Area D-1, Foreign Language	3	3
	Area C-1, History	3	3		Area C-2, Pol Sci/Econ		3
	Minor or Elective	3	2		Area B, Religion		3
		<hr/>	<hr/>	MATH 319	Linear Algebra		3
		16	16			<hr/>	<hr/>
						16	16
YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
PHYS 310	Modern Physics	3		PHYS 480	Scientific Writing		1
PHYS 495	Directed Study		1	PHYS 411	Thermodynamics		3
TECH 174	General Metals		3	PHYS 412	Quantum Mechanics		3
TECH 115	Arc Welding	1		PHYS 311-312	Gen Physics Calculus Appl		2
PHYS 413	Analytical Mechanics	3		MATH 316	Math of Physics	3	
PHYS 313	Physical Optics		3	MATH 317	Complex Variables		3
	Area F-1, Behav Sci		3		Area B, Religion (U.D.)		3
	Area B, Religion		3		Area D, Lit/Fine Arts/Spch		3
	Area G-3, Recreation Skills	1			Minor or Elective	7	
	Area F-2, Family Science					<hr/>	<hr/>
	or		3			14	14
	F-3, Health Science						
	Minor, or Area E, or Elective	5	3				
		<hr/>	<hr/>				
		16	16				

See pages 12, 13 and 15-18 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Major (B.S.): Forty hours including PHYS 213-214, 310, 311-312, 412, and 418 or 419. Computer courses are strongly recommended. TECH 114, 149, and 249/349 are also recommended.

TYPICAL SEQUENCE OF COURSES FOR B.S. PHYSICS (Starting Odd Years)

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
ENGL 101-102	College Composition	3	3	PHYS 311-312	Gen Phys Calc Appl		2
PHYS 211-212	General Physics	3	3	PHYS 310	Modern Physics	3	
PHYS 213-214	General Physics Lab	1	1	MATH 218	Calculus III	3	
MATH 181	Calculus I	4		MATH 315	Differential Equations	3	
MATH 182	Calculus II		3	CPTR 218	FORTRAN (or Pascal)	3	
MATH 216	Set Theory and Logic		2		Area B, Religion		3
	Area C-1, History	3	3		Area D, Lang/Fine Art	3	
	Area G-1 or G-3, Skills	2			Area F-1, Behavioral Science		3
		16	15		Area D-2, Literature		3
				MATH 319	Area G-3, Recreation Skill	1	
					Linear Algebra		3
						16	14
YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
PHYS 414-415	Electricity and Magnetism	3	3	PHYS 418-419	Advanced Modern	3	3
PHYS 413	Analytic Mechanics	3		PHYS 411	Thermodynamics	3	
PHYS 313	Physical Optics		3	PHYS 412	Quantum Mechanics		3
	Area B, Religion	3	3	PHYS 495	Directed Study	1	
TECH 115	Arc Welding	1		PHYS 480	Scientific Writing		1
	Area F-2, Family Science			MATH 316	Math of Physics	3	
	OR	2		MATH 317	Complex Variables		3
	Area F-3, Health Science			TECH 174	General Metals		3
	Area D-4, Speech		3		Area E-1, E-2 or E-4, Sci		3
PHYS	Elective		3		Area B, Religion (U.D.)		3
	Elective		3		Area C-2, Pol Sci/Econ		3
		15	15			16	16

See pages 12, 13 and 15-18 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Minor: Eighteen hours including six hours upper division.

Teaching Endorsement: Requirements listed under Education.

The student must apply to the Department of Education for admission to the Teacher Education Program and the professional semester before the end of the sophomore and junior years, respectively. Please see the note on page 126 between EDUC 134 and 217.

PHYS 111-112. Introduction to Physics (E-3)

3,3 hours

A general education course stressing the methods of physics, the application of physics and laboratory work which can be done with simple materials. Laboratories include the use of calculators and the computer to do arithmetic, the estimation of numerical quantities and errors, and the construction of apparatus with which to make observations. Satisfies the requirements for some Allied Health fields; does not apply on major or minor in physics. Two hours lecture, three hours laboratory each week for PHYS 111; three hours lecture for PHYS 112.

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

Constellations and eclipses, astronomical instruments, time and the date line and calendars, astronomical objects with their motions and distances, energy processes in stars and quasars and pulsars, black holes, the infinity (?) and expansion (?) of the universe. Cosmology, the formation and subsequent histories of the solar system and the earth, radioactive and radio-carbon age dating. Life on other worlds. Astronomy and the Bible. This course, dealing as it does with the physical aspects of the history of the earth and universe, complements BIOL 424 (Issues in Natural Science and Religion), which deals with the biological aspects. Three hours lecture each week, with the occasional substitution of an observation period. (Spring)

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

Prerequisite: MATH 114.

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

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

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

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

PHYS 310. Modern Physics 3 hours

Prerequisite: PHYS 211-212; MATH 181.

Continuation and conclusion of PHYS 211-212. Relativity, atomic structure, nuclear properties and radiations, and wave mechanical calculations in one dimension, and other areas of twentieth-century physics. Three hours lecture each week. Laboratory experience is available in PHYS 495. (Fall)

PHYS 311-312. General Physics Calculus Applications 1,1 hours

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

Derivations and problems in General Physics using differential and integral calculus will be studied. Students completing PHYS 211-212 and PHYS 311-312 will have taken the equivalent of General Physics with calculus. Two class periods per week. (Spring)

PHYS 313. Physical Optics 3 hours

Prerequisites: PHYS 211-212; MATH 181.

Refraction, reflection, interference, and absorption of light are discussed from the standpoint of the ray and especially of the wave theories of light. Laboratory experience is available in PHYS 495.

PHYS 316. Mathematics of Physics 3 hours

Prerequisite: MATH 315.

Partial differential equations, Fourier series, boundary value problems, Bessel functions, Legendre polynomials. (Fall, even years)

PHYS 317. Issues in Physical Science and Religion I (E-3) 3 hours

Prerequisite: One year of high school physics or chemistry or one semester of college physics or chemistry.

The extent to which mathematics and the physical sciences are true because they conform to the real world, or because they are derived from axioms, or both. Non-logical factors in the acceptance of scientific statements as authoritative. Application of the scientific method to technology-related problems. Does not apply to a major or minor in Physics.

PHYS 318. Issues in Physical Science and Religion II (E-3) 3 hours

Prerequisites: One year of high school physics or chemistry or one semester of college physics or chemistry.

The argument for the existence of God from design. The relationship of design to comprehensibility and to causality. Causality in the everyday world and on the subatomic scale. Miracles as associated with awe or with the unknown (by determinists), or with boundary conditions (as in solving problems mathematically), or with God's continual upholding of natural process. Does not apply to a major or minor in Physics.

PHYS 411. Thermodynamics 3 hours

Prerequisites: CPTR 131 or 218; PHYS 211-212; MATH 181.

A study of gases, kinetic theory, liquids, solids, and thermodynamics. Three hours of lecture each week. Taught alternate years. (Fall, even years)

PHYS 412. Quantum Mechanics 3 hours

Prerequisites: PHYS 211-212; MATH 181; CPTR 131 or 218.

Schroedinger's equation as an operator form of the energy equation. Boundary-matching solutions for square wells and barriers. Separation-of-variables method for the hydrogen atom. Electron spin and the Pauli requirement for antisymmetric wave functions, with applications to states of light atoms. Variation techniques for small atoms and molecules, Hueckel and LCAO methods, or other apparatus not including perturbation theory. (Spring, odd years)

PHYS 413. Analytic Mechanics 3 hours

Prerequisites: PHYS 310; MATH 315 (MATH 218, 316, 317, and 319 desirable).

The motion of a particle in gravitational and other classical fields is attacked using the techniques of differential equations. The behavior of systems of particles, solids, and liquids is discussed. Special functions, vector theorems, transforms, and tensors are introduced as needed. Laboratory experience is available in PHYS 495. (Spring)

PHYS 414-415. Electricity and Magnetism 3,3 hours

Prerequisites: PHYS 310; MATH 315 (MATH 218, 316, 317, and 319 desirable).

Analysis of electrical circuits. Electrostatic and magnetostatic fields, and the motion of charges therein. Maxwell's equations and the consequent prediction of electromagnetic waves. Applications to modern atomic and nuclear theory are stressed. Complex mapping, vector theorems, transforms, and special functions may be used after being introduced or reviewed. Laboratory experience is available in PHYS 495. (Fall, Spring)

PHYS 418, 419. Advanced Modern Physics **3,3 hours**

Prerequisites: PHYS 310, 413, and 414-415; MATH 218, 316, and 317 (previously or concurrently; MATH 319 desirable). In the event that the student fails to meet these prerequisites, permission of instructor must be obtained.

An advanced treatment of quantum mechanics, and of one or more of the following: atomic physics, nuclear physics, fundamental-particle physics, relativity, plasma physics. (Fall, Spring)

PHYS 480. Scientific Writing (W) **1 hour**

Principles and techniques of writing for news releases, periodicals, and research journals. The student must have done some original research of an experimental, computational, or theorem-proving nature before enrolling in this course. PHYS 295/495 and 297/497 exist to fulfill this requirement.

PHYS 295/495. Directed Study **1-3 hours**

Prerequisite: Consent of instructor.

This course consists of individual or group work adjusted to meet particular needs in Physics. Approval must be secured from the instructor prior to registration. (Fall, Spring)

PHYS 297/497. Undergraduate Research in Physics **1-2 hours**

Prerequisite: Permission of instructor.

Research under direction of a member of the staff. The topic will be assigned in accordance to the interests and capabilities of the student. May be repeated for up to four hours. (Fall, Spring)

EARTH SCIENCE**ERSC 105. Earth Science (E-4)** **3 hours**

A non-mathematical and qualitative introduction, for non-science majors, to the areas of astronomy, geology, and meteorology. Special consideration is given to the following current issues: (1) the environment—conservation and pollution of natural resources; (2) space science—exploration and uses; (3) cosmology—special creation and evolution. (Fall)

ERSC 106. Earth Science Laboratory (E-4) **1 hour**

Prerequisite: Previous or concurrent enrollment in ERSC 105.

Laboratory to accompany ERSC 105. (Fall)

EDUCATION**EDUC 438. Methods of Teaching Physics** **2 hours**

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials of instruction, planning, testing and evaluating student performances, the survey and evaluation of textbooks. Four lectures each week of the first half of the semester. (Spring)

(E-4), (W) See pages 15-18 for explanation of General Education requirements.

RELIGION

Chairman: Jack J. Blanco

Faculty: Douglas Bennett, Norman R. Gulley, Leon I. Mashchak,
Derek J. Morris, Ronald M. Springett

Advisory Council—Ministerial Recommendations: SC Religion Faculty,
Presidents of Southern Union Conferences, Southern Union
Ministerial Directors, William Wohlers, Ron Qualley, Sharon Engel,
Ken Norton, Gordon Bietz, Ken Rogers

The Department of Religion serves Southern College of Seventh-day Adventists by making four distinct contributions: (1) It directs the education and training of those who feel called to church ministry to serve as pastors, evangelists, chaplains, or in various other areas of the church's need. (2) It offers a curriculum for those pursuing a career in secondary Bible teaching. (3) It makes available a non-ministerial major in Religion for students who are preparing for professional fields other than church ministries. (4) It provides religion courses for all students to meet the general education requirements in religion.

RELIGION MAJOR (Church Ministry)

The church ministry program is integrated with that of the Seventh-day Adventist Theological Seminary at Andrews University, Berrien Springs, Michigan. The requirements as outlined below meet Seminary entrance requirements for the Master of Divinity degree which is the standard program of ministerial training prescribed by the North American Division of Seventh-day Adventists. The church ministry program is also structured to meet the specific needs of the conferences comprising the Southern Union Conference of Seventh-day Adventists.

Admission to Church Ministries Program

Students seeking admission to the Church Ministries Program must make formal application the first semester of the sophomore year. (Upper class transfer students must apply during the first semester in residence.) A program of assessment precedes individual advancement to ministerial candidacy. The various assessment profiles will assist the student and the faculty adviser in evaluating and counselling together during the period of specialized training. If at any time, after being admitted to the church ministries program, candidates give evidence of failing to maintain commitment to the criteria or preparation for ministry, they forfeit their candidacy and the department's recommendation to the ministry. (Detailed information regarding the policies and procedures related to admission to candidacy and eventual certification for ministry may be obtained from the secretary of the department in the Religion Center.)

Directed Field Education

The department requires field education of church ministry majors. These experiences are designed to enhance professional development by acquainting the student with the multi-faceted responsibilities of church ministry, to provide a laboratory for working with experienced pastors and lay leaders in visitation of both active and inactive members, and to allow experience in preaching to area congregations. These experiences are necessary before the student can be recommended by the Department for church employment. The Department will keep majors informed of the specific requirements to be met.

Summer Field School of Evangelism

Full-scale evangelistic meetings will be conducted for two months each summer under the direction of the Southern Union Conference of Seventh-day Adventists and the Department of Religion. All church ministry majors are required to participate in one such crusade. The Department will offer six hours of academic credit in public and personal evangelism and the Southern Union will provide a scholarship for those who are approved by the faculty to participate. Scholarship information may be obtained from the departmental secretary. Additional evangelistic opportunities for individual students and student teams may be made available by approval of the Department to accommodate requests from the conferences within the Southern Union.

RELIGION MAJOR (Teaching Ministry)

The teaching ministry program is coordinated with the Department of Education/Psychology of the college. Planning for certification by the state and/or endorsement by the Seventh-day Adventist church for Bible teaching is made with the certifying officer of the Education/Psychology Department, both for admission to the Teacher Education program in the sophomore year and to the professional semester before the senior year.

Admission to Teacher Education Program

The criteria for admission to Teacher Education, requirements for secondary Bible teaching, and policies and procedures related to student teaching may be found in the college catalog under the Department of Education/Psychology and obtained from the secretary of the Department in Summerour Hall.

Teacher Certification and Endorsement

Those seeking Tennessee State Certification only must select 12 hours from RELB courses. Those seeking to add Denominational Teaching Endorsement to their certification must take RELT 138, 255 or 484, 485, and HLED 173. All students seeking certification in religion must take EDUC 438, Special Methods of Teaching Bible, regardless of whether they had other special methods courses. Application for certification

must be made with the Department of Education/Psychology before the end of the sophomore year.

RELIGION MAJOR (Non-Ministerial)

Like other majors, it is open to all students. It is a 124-hour liberal arts major and provides a balanced selection of both biblical studies and theology courses. The four-year degree candidate may apply the required 12 hours of General Education courses in religion toward the major, thus reducing the number of extra courses needed to qualify. The religion major is chosen by students preparing for such professional fields as medicine, dentistry, and law, as well as for other graduate studies.

Students who wish to take the non-ministerial major and be recommended by the Religion Department for denominational employment as pastors, chaplains, Bible instructors, literature evangelists, etc., must appear before the Religion faculty. They will be admitted to the program if they meet the criteria and their individualized study program as recommended by their adviser is approved by the department.

GENERAL EDUCATION COURSES IN RELIGION

The objective in all religion courses is to enhance knowledge of and appreciation for the Scriptures, and to assist the student in gaining and maintaining a vital involvement with Jesus Christ, and a personal commitment to serve family, church, community, and the world. Six semester hours of religion are required of the two-year graduate, and 12 semester hours of the four-year graduate. This is equivalent to one three-hour course per year which may be selected from any of the religion courses offered. Bachelor degree students must take at least three semester hours at the upper division level. (Detailed information on General Education requirements are found in the college catalog.)

JERUSALEM STUDIES

The Department of Religion recognizes the Jerusalem Center for Biblical and Archaeological Studies as an educational service of the Seventh-day Adventist Church that provides study of the Scriptures and related subjects to full-time students and others in the unique setting of Jerusalem. Faculty from the Religion Department of Southern College are participant lecturers. The Center offers undergraduate and graduate work, as well as non-credit seminars on a scheduled basis.

Although it serves as a center for instruction, the Center does not offer degrees or grant academic credit on its own authority. Under a cooperative agreement with Adventist schools of higher learning, the offerings for each term at the Jerusalem Center are planned as a full-credit unit suitable for degree programs in colleges and universities. Information about the Center and its programs may be obtained from the secretary of the Religion Department.

GRADUATION REQUIREMENTS

The candidates for graduation in the program for **church ministry** must have a 2.00 overall, a 2.25 in their major and in the area of candidacy in order to graduate, and a 2.50 overall for Seminary entrance. In addition they must qualify for certification in ministry by giving evidence of moral, physical, social, and intellectual fitness. They must also demonstrate emotional maturity, and professional commitment, in order for the department to recommend them as prospective ministerial employees. Those students pursuing the **teaching ministry** must have a 2.00 overall and a 2.50 in education and in the field of certification as outlined by the Department of Education and Psychology. The general candidates for graduation, from the Department of Religion, must have a cumulative grade point average of 2.00 overall and a 2.25 in their major as outlined in the college catalog.

BACHELOR OF ARTS DEGREE IN RELIGION

The B.A. degree in Religion requires courses in biblical studies and religion of which three are introductory with others covering the Old and New Testament, the prophetic books of Daniel and Revelation, and the Fundamental Beliefs of Seventh-day Adventists in the light of Christian Theology.

Major—Ministers, Teachers, Non-Ministerial Major: 33 hours

RELB 125	Life and Teachings of Jesus	3 hours
RELT 138	Adventist Heritage	3 hours
RELB 236	Understanding the Bible	3 hours
RELB 345	Pentateuch and Writings (W)	3 hours
RELB 346	Prophets	3 hours
RELB 435	New Testament Studies I	3 hours
RELB 436	New Testament Studies II (W)	3 hours
RELB 425	Studies in Daniel (W)	3 hours
RELB 426	Studies in Revelation	3 hours
RELT 484	Christian Theology I	3 hours
RELT 485	Christian Theology II	3 hours

TOTAL

33 hours

Major—Church Ministry: 33 hours plus 18 hours in Biblical Languages, 23 hours for Certification for Ministry, and cognate requirements as follows:

MINOR IN BIBLICAL LANGUAGES:

RELL 271-272	Elements of New Testament Greek I, II ..	4,4 hours
RELL 311-312	Intermediate New Testament Greek I, II .	3,3 hours
RELL 471-472	Biblical Hebrew I, II	2,2 hours

TOTAL

18 hours

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CERTIFICATION FOR MINISTRY:

REL 321-324	Homiletics I, II, III, IV	2,2,2,2	hours
REL 351-352	Church Ministry I, II	3,3	hours
REL 353	Interpersonal Ministry	3	hours
REL 465	Personal Evangelism	3	hours
REL 466	Public Evangelism	3	hours
TOTAL			23 hours

COGNATE REQUIREMENTS: (Count toward General Education)

PEAC 125	Conditioning (G-3)	1	hour
CPTR 105	Intro to Word Processing (G-2)	1	hour
BUAD 128	Personal Finance	3	hours
PSYC 128	Developmental Psychology (F-1)	3	hours
EDUC 134	Principles of Christian Education	2	hours
SPCH 135	Introduction to Public Speaking (D-4)	3	hours
HLED 173	Health and Life (F-3)	2	hours
SOCI 223	Marriage and the Family (F-2)	2	hours
HIST 364-365	Christian Church I, II (C-1), (W)	3,3	hours
PSYC 377	Fundamentals of Counseling (F-1), (W)	3	hours
TOTAL			26 hours

TYPICAL SEQUENCE OF COURSES FOR

B.A. RELIGION — CHURCH MINISTRY

YEAR 1			Semester		YEAR 2			Semester	
			1st	2nd				1st	2nd
ENGL 101-102	College Composition (A-1)	3	3	RELL 271-272	Elem of New Test Greek (D-1)	4	4		
RELB 125	Teachings of Jesus	3		CPTR 105	Intro to Word Processing (G-2)	1			
RELT 138	Adventist Heritage		3	PSYC 128	Developmental Psychol (F-1)		3		
SPCH 135	Intro. to Public Speaking (D-4)	3		RELB 236	Understanding the Bible		3		
MATH 103	Survey of Mathematics (A-2)		3	Elective	Area C-2, Political Sci/Econ		3		
BUAD 128	Personal Finance	3		RELB 345	Pentateuch and Writings (W)		3		
Elective	Area D-2,3 Literature/Music/Art		3	RELB 346	Prophets		3		
HLED 173	Health and Life (F-3)	2			Area E, Science		3		
SOCI 223	Marriage and the Family (F-2)		2		Area E, Science		3		
PEAC 125	Conditioning (G-3)		1		Elective		2		
			14	15				16	16

YEAR 3		Semester		YEAR 4		Semester	
		1st	2nd			1st	2nd
RELL 311-312	Intermediate Greek (D-1)	3	3	RELL 471-472	Biblical Hebrew I, II (D-1)	2	2
RELP 321-322	Homiletics I, II	2	2	RELP 323-324	Homiletics III, IV	2	2
RELP 351-352	Church Ministry I, II	3	3	RELP 353	Interpersonal Ministry	3	
RELB 425	Daniel (W)	3		PSYC 377	Fund of Counseling (F-1), (W)		3
RELB 426	Revelation		3	RELB 435-436	New Testament Stud I, II (W)	3	3
HIST 364-365	Christian Church I, II (C-1), (W)	3	3	RELT 484-485	Christian Theology I, II	3	3
EDUC 134	Prin of Christian Education	2					
	Area G-1, 2 Skills		2				
			<u>2</u>				
		16	16			13	13

SUMMER FIELD SCHOOL

RELP 465	Personal Evangelism	3	
RELP 466	Public Evangelism	3	
		<u>6</u>	

Note: If students in the church ministry program encounter unusual difficulties in completing their cognate general education requirements due to conflicts in scheduling, they may, through their adviser, apply for permission to take comparable courses within the general education offerings.

Major—Teaching Ministry: 33 hours plus 28 hours in Education and cognate requirements as follows:

PROFESSIONAL EDUCATION REQUIREMENTS:

EDUC 125	Foundations of Education	3 hours
EDUC 134	Principles of Christian Education	2 hours
EDUC 217	Psychological Foundations of Education	3 hours
EDUC 240	Education for Exceptional	
	Children and Youth	2 hours
EDUC 356	Tests and Measurements	2 hours
EDUC 427	Current Issues in Education	2 hours
EDUC 432	Reading in the Secondary School	2 hours
EDUC 437	Curriculum and General Methods	2 hours
EDUC 438	Special Methods of Teaching,	
	Grades 7-12 (Bible)	2 hours
EDUC 468	Student Teaching Grades 7-12	8 hours
	TOTAL	28 hours

COGNATE REQUIREMENTS: (Count toward General Education)

SPCH 135	Introduction to Public Speaking (D-4)	3 hours
SPCH 136	Interpersonal Communication (D-4)	3 hours
BUAD 128	Personal Finance	3 hours
HLED 173	Health and Life (F-3)	2 hours
RELL 271-272	Elements of New Testament	
	Greek I, II (D-1)	4,4 hours
PSYC 377	Fundamentals of Counseling (F-1), (W)	3 hours
	TOTAL	22 hours

TYPICAL SEQUENCE OF COURSES FOR B.A. RELIGION — TEACHING MINISTRY

YEAR 1			Semester		YEAR 2			Semester	
			1st	2nd				1st	2nd
ENGL 101-102	College Composition (A-1)		3	3	CPTR 105	Intro to Word Processing		1	
RELB 125	Teachings of Jesus		3		SPCH 135	Intro to Public Speaking (D-4)		3	
RELT 138	Adventist Heritage			3	HLED 173	Health and Life (F-3)			2
EDUC 125	Foundations of Education		3		MATH 103	Survey of Mathematics (A-2)		3	
EDUC 134	Principles of Education			2	EDUC 240	Educ for Exceptional Children			2
BUAD 128	Personal Finance		3		EDUC 217	Psych Found of Educ (F-1)		3	
	Minor or Electives			2	RELB 236	Understanding the Bible			3
	Area C-1, History		3	3	SPCH 136	Interpersonal Comm (D-4)			3
	Area D-2,3 Literature/Music/Art			3		Area G-1 or G-2		2	
			15	16		Area E, Science		3	
						Area E, Science			3
						Area G-3, Skills		1	
						Minor or electives			3
								16	16
YEAR 3			Semester		YEAR 4			Semester	
			1st	2nd				1st	2nd
RELL 271-272	Elem of New Test Greek (D-1)		4	4	RELB 435	New Testament Studies I		3	
RELB 345	Pentateuch and Writings (W)		3		RELT 484	Christian Theology I		3	
RELB 346	Prophets			3	EDUC 432	Reading in the Sec School		2	
RELB 425	Daniel (W)		3			Area G-1,2 Skills		3	
RELB 426	Revelation			3		Minor or Electives		4	
PSYC 377	Fund of Counseling (F-1), (W)		3		EDUC 356	Tests and Measurements			2
RELT 485	Christian Theology II			3	EDUC 427	Current Issues in Education			2
RELB 436	New Testament Studies II, (W)			3	EDUC 437	Curriculum and Gen Methods			2
	Area C-2, Pol Sci/Economics		3		EDUC 438	Spec Meth in Teaching (Bible)			2
			16	16	EDUC 468	Student Teaching, Grades 7-12			8
								15	16

MINOR—IN RELIGION

A minor in Religion requires 18 hours including six upper division hours and RELB 236 and RELT 255. No more than one course may be selected from RELP listings or RELT 317, 318, and 424. Those seeking state certification and/or denominational endorsement for teaching could, with wise selection, acquire a minor in Religion and also fulfill their certification/endorsement requirements.

MINOR—BIBLICAL LANGUAGES

A minor in Biblical Languages requires 18 hours from RELL 271-272; 311-312; and 471-472.

MINOR—PRACTICAL THEOLOGY

RELP 321-322	Homiletics I, II	2,2 hours
RELP 351-352	Church Ministry I, II	3,3 hours
RELP 353	Interpersonal Ministry	3 hours
RELP 465	Personal Evangelism	3 hours
RELP 466	Public Evangelism	3 hours

18 hours

BIBLICAL STUDIES

RELB 125. Life and Teachings of Jesus (B-1) 3 hours

A study of the life, ministry, and teachings of Jesus with special emphasis on His teachings as they apply to the personal, social, and religious problems of the individual. (Fall, Spring, Summer)

RELB 175. Acts of the Apostles (B-1) 3 hours

A study of the development of the church during apostolic times, including an introduction to the characters, issues, and events that shaped the earliest Christian communities and the theological development of the gospel by the early church. (Fall)

RELB 236. Understanding the Bible (B-1) 3 hours

An introduction to the theory and practice of Biblical interpretation. Designed to enrich anyone wishing to learn how to read and understand the Scriptures, the course will focus on the nature of the Biblical text, available resources for interpretation, and the proper procedures involved in adequate exegesis and hermeneutics. Some consideration will also be given to the interpretation of the writings of Ellen G. White as they relate to the Bible. (Fall, Spring, occasional Summer)

RELB 135/335. Archeology and the Bible (B-1) 3 hours

A study of cultures, customs, languages, and rituals that throw light on the understanding of Scripture based on archeological and other ancient material which, interpreted from the viewpoint of the Bible, emphasizes its accuracy and authenticity. (Fall, Spring, occasional Summer)

RELB 345. Pentateuch and Writings (B-1) (W) 3 hours

An introduction to the Pentateuch and Writings, two major divisions of the Old Testament. Attention will be given to the structure, theme, theology, historical setting, and significance of this literature in Christian interpretation. Various approaches to the study of the Old Testament will be surveyed. (Fall, alternate Summers)

RELB 346. Prophets (B-1) 3 hours

An introduction to the Prophets, a third major division of the Old Testament. Attention will be given to the structure, theme, theology, historical setting, and significance of this literature in Christian interpretation. (Spring, alternate Summers)

RELB 425. Studies in Daniel (B-1) (W) 3 hours

Recommended: HIST 174, 175.

A study of selected historical and prophetic portions of Daniel to discover their meaning and relevance for today. (Fall, alternate Summers)

RELB 426. Studies in Revelation (B-1) 3 hours

Recommended: HIST 174, 175.

A study of the prophecies and symbolisms of Revelation with their historical fulfillments. Special attention will be given to discovering its special message for our day. (Spring, alternate Summers)

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RELB 435. New Testament Studies I (B-1) 3 hours

A brief introduction to and an exegetical study of the following epistles in the order of their composition: Galatians, 1 and 2 Thessalonians, 1 and 2 Corinthians, and James. Includes a background survey of the book of Acts. (Fall, alternate Summers)

RELB 436. New Testament Studies II (B-1) (W) 3 hours

A brief introduction to and an exegetical study of Romans, the Prison, Pastoral, and General epistles, (excluding James) and Hebrews. (Spring, alternate Summers)

RELB 295/495. Directed Study 1-3 hours

This course is limited to Religion majors and must be approved by the chairman of the Religion Department. Occasionally the course may be conducted as a seminar and published in the schedule of classes. (Fall, Spring, Summer)

RELIGION AND THEOLOGY

RELT 138. Adventist Heritage (B-2) 3 hours

A study of the Second Advent Awakening in the nineteenth century and the subsequent development of the Seventh-day Adventist Church. Special emphasis will be placed on the contributory role in the church of the Spiritual Gift of Prophecy through the life and ministry of Ellen G. White. (Fall, Spring, Summer)

RELT 225. Last-Day Events (B-2) 3 hours

Last-Day Events is a biblical, theological, and historical study of eschatology rooted in its Christ-centered focus. It considers the unique Seventh-day Adventist contribution over against that made by leading scholars both in the past and present. Also it examines the New Age Movement and Dispensationalism and focuses on how to be ready for the end event. (Fall, Spring, Summer)

RELT 255. Christian Beliefs (B-2) 3 hours

Christian Beliefs is a study of Adventist doctrines in a Christ-centered context. This course will involve a study of the major teachings, with a view to enhancing the student's understanding and ability to provide biblical support for his faith. (Fall, Spring, Summer)

***RELT 317. Issues in Physical Science and Religion (B-2) 3 hours**

(See Division of Mathematical Sciences PHYS 317.)

***RELT 318. Issues in Physical Science and Religion II (B-2) 3 hours**

(See Division of Mathematical Sciences PHYS 318.)

*One of the "Issues" courses can apply to General Education natural science requirement for majors, and to Religion for nonmajors.

REL 268/368. Comparative Religions (B-2) (W) 3 hours

A study of several major representative Christian and non-Christian religions, including a survey of the history and the distinctive characteristics of each. RELT 268 is offered on the Orlando campus only and does not carry writing emphasis. RELT 368 will require observational field work. (Spring)

REL 373. Christian Ethics (B-2) 3 hours

A foundation course in moral decision-making in the fields of bio-ethics, moral ethics, and personal ethics. The objective is to discover timeless norms by which to make basic ethical decisions across the professional spectrum. These norms are then applied to issues relevant to the student. Limited to nursing students or students with Junior/Senior class standing. (Fall, Spring, Summer)

***REL 424. Issues in Natural Science and Religion (B-2) (W) 3 hours**

(See Division of Natural Science listings, BIOL 424.)

REL 465. Topics in Religion (B-2) 3 hours

This course is designed to provide an exposure to a wide range of religious studies dealing with issues encountered in evangelism, theological areas, and Biblical studies. The content will change, as needed, so the course may be repeated once for credit. Open to all students. (Fall, alternate years)

REL 467. Philosophy and the Christian Faith (B-2) 3 hours

A study of the main thinkers and schools of thought from the Middle Ages to the present and their influence on biblical theology. Also, attention will be given to various world views which are shaping Christian thought today. (Spring)

REL 484. Christian Theology I (B-2) 3 hours

Christian Theology I and II examine the major loci of Christian beliefs. Christian Theology I takes up Prolegomena, Doctrine of God, Christology, and Pneumatology; and in the process covers a portion of the 27 Seventh-day Adventist fundamental beliefs. Acceptable for denominational certification only when RELT 485 is also taken. (Fall)

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

Prerequisite: RELT 484.

Christian Theology II examines Anthropology, Soteriology, Ecclesiology, and Eschatology, covering the remaining 27 Seventh-day Adventist fundamental beliefs. Acceptable for denominational certification. (Spring)

REL 295/495. Directed Study 1-3 hours

This course is limited to Religion majors and must be approved by the chairman of the Religion Department. Occasionally the course may be conducted as a seminar and published in the schedule of classes. (Fall, Spring, Summer)

*One of the "Issues" courses can apply to General Education natural science requirement for majors, and to Religion for nonmajors.

PROFESSIONAL TRAINING

Pastoral Leadership

REL 321. Homiletics I

2 hours

Prerequisite: SPCH 135.

An introduction to sermon development and delivery. Attention will be given to the sermon structure and the preparation of biographical and topical sermons. Opportunity will be given to preach and analyze sermons. One lecture and two laboratories each week. *To be taken in the junior year.* (Fall)

REL 322. Homiletics II

2 hours

Prerequisite: REL 321.

Expository, textual sermon types will be considered. One field trip will be required. Opportunity will be provided to develop proficiency in preaching. One class lecture and two laboratories each week. *To be taken in the junior year.* (Spring)

REL 323. Homiletics III

2 hours

Prerequisite: REL 322.

The development of preaching skills shared in Homiletics I and II, with special emphasis on the preparation and delivery of the narrative/expository sermon. (Fall)

REL 324. Homiletics IV

2 hours

Prerequisite: REL 322.

The development and the preaching of evangelistic sermons which will prepare one to conduct a public crusade. (Spring)

REL 351. Church Ministry I

3 hours

An introduction to church ministry, this course focuses on the responsibilities of clergy and laity, including the call to discipleship and/or ministry, the study of denominational polity, the administrative structure of the church on all levels, and the relationship of the local church to the community. Laboratory work in area churches will be required. (Fall)

REL 352. Church Ministry II

3 hours

Consideration is given the various professional tasks of the pastor, such as pastoral care, administration, leadership in worship, and conducting baptisms, weddings, anointing services, funerals, etc. Laboratory work in area churches will be required. (Spring)

REL 353. Interpersonal Ministry

3 hours

The development of listening skills and interpersonal communication in pastoral visitation with special emphasis on revitalizing inactive members. Laboratory work in area churches will be required. Upon successful completion of the course, students will receive certification from *Leadership Education and Development Consultants* (L.E.A.D.) as Lab I graduates. (Fall)

REL 455. Evangelistic Methods 3 hours

Attention will be given to concepts and methods involving ways of creating witnessing opportunities, the giving of Bible studies, obtaining a decision for Christ, the conducting of Revelation Seminars, and public evangelism. Where possible, Revelation Seminars will be conducted concurrent with the class. Three hours per week of field experience is required. (On demand)

REL 465. Personal Evangelism 3 hours

Attention will be given to methods and principles of Evangelism Explosion and the giving of Bible studies. Field work with local churches will be required. This course is available only in connection with the Field School of Evangelism. The consent of the Religion Department must be obtained prior to enrollment. (Summer)

REL 466. Public Evangelism 3 hours

A study of the principles employed in preparing and conducting public evangelistic meetings. The student will learn how to plan, develop, and hold an evangelistic series as well as Revelation Seminars. This course is available only in connection with the Field School of Evangelism. The consent of the Religion Department must be obtained prior to enrollment. (Summer)

REL 295/495. Directed Study 1-3 hours

This course is limited to Religion majors and must be approved by the chairman of the Religion Department. Occasionally the course may be conducted as a seminar and published in the schedule of classes. (Fall, Spring, Summer)

Lay Leadership and Missions**REL 051-052. Student Mission Practicum (non-credit)** 6,6 hours

This course is designed specifically for those who participate in the North American Division Taskforce Program, and those who work in other countries as part of the Student Missions Program. Activities will vary according to specific area and positions available and the length of service will be from nine months to one year. May not be repeated.

REL 127. Student Missions Orientation 2 hours

A course designed to help students better understand cultural differences, interpersonal relationships, health care for others and themselves, social and monetary problems, personal qualifications for service and relevant denominational policies for overseas service. The course is required by the General Conference of Seventh-day Adventists for those under appointment as student missionaries. (See REL 051-052). One-third regular tuition rate. (Spring)

REL 204. Principles of Self-Supporting Work 2 hours

The objectives of this course are to set forth principles from the Spirit of Prophecy; review the history and successes and failures of self-supporting institutions; study plans and methods of operation and set before the student the needs and call for active involvement as lay members.

Religion

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REL P 206. Christian Salesmanship 2 hours
Teaches the psychology, techniques and methods of selling Christian literature.

BIBLICAL LANGUAGES

RELL 271-272. Elements of New Testament Greek (D-1) 4,4 hours
A study of grammar of the vernacular (*koine*) Greek of New Testament times, with readings in the epistles of John. Laboratory work required. (Fall, Spring)

RELL 311-312. Intermediate New Testament Greek (D-1) 3,3 hours
A course in advanced studies, grammar, and syntax of (*koine*) Greek with translation of readings from the Gospel of John, the Synoptics, and the Pauline Epistles. (Fall, Spring)

RELL 471-472. Biblical Hebrew (D-1) 2,2 hours
A foundation course in the grammar, syntax, and lexicography of classical Biblical Hebrew, with an emphasis on reading skills. Laboratory work required. (Fall, Spring)

EDUCATION

EDUC 438. Methods of Teaching Bible 2 hours
Prerequisite: Admission to Teacher Education.
Attention is given to methods and materials construction, planning, testing and evaluating student performances, the survey and evaluation of textbooks. Four lectures each week of the first half of the second semester during the senior year. (Fall, Spring)

(B-1), (B-2), (D-1), (W) See pages 15-18 for explanation of General Education requirements.

Chairman: John Durichek

Faculty: Francis Hummer, Dale Walters

Advisory Council: Willard Clapp, Allen O'Neal, Leon Scoggins, Bob Sullivan, Jeff Taylor

Courses are offered which provide opportunity to balance learning with practical experience in the areas of woods, metals, printing, drafting, and auto maintenance. Objectives of these classes are:

1. To assist the student in growing toward his potential by providing classroom and lab experiences that nurture creativity.
2. To help the student learn to meet the challenges of daily living by providing "hands-on" experiences with elements of the environment.
3. To develop practical skills which will be useful throughout life as hobby and recreational activities as well as professional enhancement.
4. To provide opportunity for the student to develop tactile learning skills.
5. To introduce the student to opportunities in technical and service occupations.
6. To provide background for entrance into specialized technical and professional degree programs and occupations.

These courses are essential for students majoring in:

Art
Business Administration
Education
Journalism and Communications
Office Administration
Pre-Occupational Therapy
Pre-Engineering

Associate of Science Degree—Computer Applications: TECH 101, 145, 149, 174, 183, 245, 249, 254, 264; CPTR 105, 106, 107, 131, 219. Cognates: MATH 104, PHYS 111.

The A.S. Degree in Computer Applications provides learning experiences in computer-aided drafting, computer numerically-controlled machines, robotics and automation, desktop publishing and other related computer applications.

TYPICAL SEQUENCE OF COURSES FOR COMPUTER APPLICATIONS

First Year

FIRST SEMESTER		Hours	SECOND SEMESTER		Hours
TECH 101	Tech Awareness	2	TECH 183	Basic Electronics	3
TECH 149	Mechanical Drawing	2	TECH 249	Computer-Aided Graphics	3
MATH 104	Intermediate Algebra (required cognate)	3	ENGL 102	College Composition	3
CPTR 105,6,7	Word Perfect, Lotus, dBase III+	3	PHYS 111	Intro to Physics	3
ENGL 101	College Composition	3		Religion	3
	Religion	3		Recreation Skills	2
		<hr/> 16			<hr/> 17

Second Year

FIRST SEMESTER		Hours	SECOND SEMESTER		Hours
TECH 174	General Metals	3	TECH 254	Furniture Design Construction	3
TECH 145	Intro to Graphic Arts	3	TECH 264	Automation/Robotics (CIM)	3
TECH 154	Woodworking	3	CPTR 219	Symbolic Assembler Language	3
TECH 245	Computer-Aided Publishing	2		History	3
CPTR 131	Fund of Programming	3		Behavior/Family Science	3
	Lang/Lit/Fine Arts	3			<hr/> 15
		<hr/> 17			

65 Semester Hours

Associate of Science Degree—Architectural Studies: TECH 101, 145, 151, 245, 249; CPTR 105, 106, 107; ART 104, 110; CFSC 349; BUAD 326, 334, 344; ECON 213. Cognates: MATH 104; PHYS 111.

The A.S. Degree in Architectural Studies can lead to advanced degrees or employment in the construction industry, the arts, business, and other fields.

TYPICAL SEQUENCE OF COURSES FOR ARCHITECTURAL STUDIES

First Year

FIRST SEMESTER		Hours	SECOND SEMESTER		Hours
TECH 101	Tech Awareness	2	TECH 249	Computer-Aided Drafting	3
TECH 151	Architectural Drafting	3	ENGL 102	College Composition	3
ART 104	Beginning Drawing	2	ART 110	Design II	3
ENGL 101	College Composition	3		Religion	3
CPTR 105,6,7	Word Perfect, Lotus, dBase III+	3	BUAD 326	Intro to Marketing	3
MATH 104	Intermediate Algebra	3		Skills/Rec Health	2
		<hr/> 16			<hr/> 17

Second Year

FIRST SEMESTER			Hours	SECOND SEMESTER			Hours
TECH 145	Intro to Graphic Arts	3		CFSC 349	Interior Design	3	
TECH 245	Computer-Aided Publishing	2		BUAD 344	Human Resource Management	3	
BUAD 334	Principles of Management	3			History	3	
ECON 213	Survey of Economics	3			Lang/Lit/Fine Arts	3	
	Religion	3			Behavior/Family Science	3	
PHYS 111	Intro to Physics	3				15	
		<u>17</u>					

65 Semester Hours

Minor: A minor in Technology is eighteen hours including six hours upper division. Courses in Auto Body do not apply on this minor except TECH 223.

DIPLOMA PROGRAM

Auto Body—Repair and Refinishing

The auto body program is designed to teach panel repair, refinishing, estimating, frame straightening, and major collision repair. The typical student upon completion of the course should have gained sufficient skill and experience to obtain employment in the trade.

Inasmuch as tradespeople provide their own hand and air tools, the student will be expected to purchase a skeleton set for personal use during the course. The department will assist the student in the purchase of these tools which will cost approximately \$300.

Enrollment in the Auto Body Diploma Program is limited. Applications to this program should be sent directly to Francis Hummer, instructor, for approval. Students whose applications are approved by August 1 will receive a scholarship in the amount of one-half the tuition in addition to whatever grants or scholarships for which they may be eligible.

The requirements are as follows: TECH 110, 111-112, 114, 116, 118, 120; TECH 164, 364, and three hours from General Education B-1 or B-2 courses.

TYPICAL SEQUENCE OF COURSES FOR CERTIFICATE — AUTO BODY REPAIR

A program which provides intensive exposure and correlated experience in various facets of auto body repair.

FIRST SEMESTER			Hours	SECOND SEMESTER			Hours
TECH 114	Oxy-Acetylene Welding	1		TECH 118	Collision Repair II	4	
TECH 111	Painting & Refinishing I	4		TECH 120	Collision Repair III	5	
TECH 110	Panel & Sport Repair	5		TECH 112	Painting & Refinishing II	2	
TECH 116	Collision Repair I	4		TECH 264	Auto Repair	3	
TECH 164	Auto Maintenance	2			Area B, Religion	3	
TECH 115	Arc Welding	1				17	
			17				

At the end of the second semester and nearly 1,000 hours of instruction and lab time the successful student will have skills to do:

- (1) major collision repair
- (2) frame alignment
- (3) job estimating
- (4) complete re-paint work
- (5) powerplant and drive train repair

A certificate will be awarded upon satisfactory completion of 900 plus hours of instruction and lab time.

In addition to introductory repair projects each student will be involved in at least three major collision repair projects.

Enrollment in the Auto Body Diploma Program is limited. Applications to this program should be sent directly to Francis Hummer, Instructor, for approval. Students whose applications are approved by August 1 will receive a scholarship in the amount of one-half the tuition in addition to whatever other grants and scholarships for which they may be eligible.

AFFILIATION PROGRAM

Students wishing a Bachelor of Technology degree in Graphic Art or Technical Plant Services may take the following classes and transfer to Andrews University after one year:

B.T. Graphic Arts

TECH 145, 149, 245, 295	9 hours
ART 104, 109	5 hours
CPTR 105, 106, 107	3 hours
ENGL 101	3 hours
JOUR 225	3 hours
RELT 255	3 hours
SOCI 125	3 hours
SPCH 135	3 hours

B.T. Technical Plant Services

TECH 114, 115, 149, 154, 174, 183, 223, 249, 264	21 hours
ENGL 101	3 hours
SPCH 135	3 hours
RELT 255	3 hours
SOCI 125	3 hours

TECHNOLOGY

TECH 101. Technology Awareness **2 hours**

This course is designed so that the student will become better acquainted with the field of technology. Emphasis is directed toward but not limited to the area of industrial technology, current and future developments in the industry and their impact on society. Along with an awareness of the qualifications to enter today's technological job market, special attention will be given to the training available at Southern and other SDA institutions. Open to all students.

TECH 110. Panel and Spot Repair **5 hours**

Course is the first introduction to body repair. Student will learn how to straighten small dents, prepare panel for body fillers, prime and block ready for painting. (Fall)

TECH 111-112. Painting and Refinishing **4,2 hours**

An introductory study of vehicle preparation and painting. Student will progress to doing complete refinish job himself. Student must purchase his own respirator and spray gun. Costs average \$125. (Fall, Spring)

TECH 114. Oxy-Acetylene Welding **1 hour**

Gas welding and brazing of sheet metal in preparation for typical body shop welding jobs. Personal goggles required. (Fall)

TECH 115. Arc Welding **1 hour**

A class designed to give basic understanding of arc welding processes. Emphasis will be given to MIG, TIG, Heliarc, as well as conventional stick welding.

TECH 116. Collision Repair I **4 hours**

Introduction to a major collision job. Students will probably work in pairs. Body alignment, frame straightening, panel replacement, and dent repair are involved. (Fall)

TECH 118. Collision Repair II **4 hours**

Continuation of experience in collision repair, emphasizing body alignment, frame straightening, glass work, fiberglass repair, and body section replacement. There is no lecture component to this class, but rather is composed of four three periods laboratory per week. (Spring)

TECH 120. Collision Repair III **5 hours**

A repetition of work experiences of Collision Repair I and II, but on an individual basis. Students will learn estimate writing, parts and supplies purchasing, shop management, and equipment maintenance. (Spring)

TECH 145. Introduction to Graphic Arts (G-2) **3 hours**

Special emphasis is given to offset methods of copy preparation, camera techniques, platemaking, screen printing and press work. Experience is offered in personal computer desktop publishing. Skills learned are applicable for personal and business communications. A supplies fee will be charged for projects produced in class. Average cost of projects approximately \$75. (Fall)

- TECH 149. Mechanical Drawing (G-2) 2 hours**
A basic course in drafting, training the student in the use of instruments and the principles of orthographic projection, surface development, sectioning, pictorial representation, and dimensioned working drawings. Six periods laboratory each week. Lecture as announced by the instructor. Instruments cost approximately \$40. (Fall)
- TECH 151. Architectural Drafting 3 hours**
An introduction to skills and basic knowledge of architectural drafting. Emphasis is on lettering, orthographic projection, parallel line pictorial drawings, shades and shadows, and perspective drawing. Open to all students.
- TECH 154. Woodworking (G-2) 3 hours**
A study of hand and machine tools, joinery, and proper methods of furniture construction. One period lecture, six periods laboratory each week. A supplies fee will be charged for the cost of the materials used in project construction. Generally, the costs have exceeded \$100 or \$200 if large furniture items were constructed. (Fall)
- TECH 164. Automotive Maintenance (G-2) 2 hours**
A course designed to help the car owner become knowledgeable in the matters of buying, servicing, and maintaining the auto. The student will work on his own car or on one belonging to the shop. Basic tools are needed which will cost \$50-\$75. One period lecture and three periods laboratory each week. (Fall)
- TECH 174. General Metals (G-2) 3 hours**
Designed to acquaint the student with the many aspects of working with metals. Instruction will be given in the areas of forging, foundry, sheet metal, welding, plus hand- and power-operated metal-cutting equipment. One period lecture and six periods laboratory each week. Project expenses average \$50. Each student must purchase his own safety glasses, welding gloves and goggles. (Spring, alternate years)
- TECH 183. Basic Electronics 3 hours**
An introductory course to the properties of electricity/electronics as they pertain to AC and DC electrical circuits and devices such as diodes, transistors and integrated circuits. Intended to introduce the beginning student to the field of electronics. Two three-hour lecture/labs each week.
- TECH 223. Auto Body Repair (G-2) 3 hours**
An introductory course designed to acquaint the student with the principles and techniques used in repair of damaged body panels. Preferences will be given for class admission to those who have experience in doing automotive work and who have gas welding skills. Each student will need his own basic hand tools which cost approximately \$100. One period lecture and six periods laboratory per week. (Spring, alternate years)

TECH 245/345. Computer-Aided Publishing **2 hours**

Prerequisite: TECH 145 or equivalent.

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

TECH 249/349. Computer-Aided Drafting (G-2) **3 hours**

Prerequisite: TECH 149 or equivalent.

An introduction to Computer-Aided Drafting. A study of the computer as an aid in drawing and design as it applies to technical, mechanical, architectural and electrical fields using Auto Cad and Cad Key. Six periods laboratory each week. Lecture as announced by the instructor. (Spring)

TECH 254/354. Furniture Design and Construction **3 hours**

Prerequisite: TECH 154.

Emphasis will be placed on the design process as it pertains to woods and its combination with other materials. Two three-hour lecture/labs each week. (Spring, alternate years)

TECH 264/364. Automotive Repair (G-2) **2 hours**

Prerequisite: TECH 164.

A course designed to give basic understanding of the automobile. Main emphasis is given to power plant and drive train design, operation and service. One period lecture and three periods laboratory each week. Each student supplies his own hand tools and coveralls. Minimum tool set costs approximately \$75. All lab learning experience is on actual cars either from the community or personal vehicles. (Spring)

TECH 295/495. Directed Study **1-3 hours**

The study of a specific problem in the field of Technology. A written report of the problem may be required by the supervising instructor. Open only to those earning a minor in Technology. Offered on demand. (Fall, Spring)

TECH 376. Automation and Robotics **3 hours**

Prerequisites: TECH 149, 183, 249/349 or equivalent.

Basic elements and principles of computer integrated manufacturing including terminology, computer hardware/software and interfacing, system integration, flexible manufacturing and robotic applications.

See pages 15-18 for explanation of General Education requirements.



INTERDEPARTMENTAL PROGRAMS

MEDICAL SCIENCE

Adviser: Stephen A. Nyirady

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

1. Complete 93 semester hours in an accredited undergraduate college program of which at least the last 30 were taken in residence at Southern College and at least 12 of which are at the upper division level.
2. Provide certification from an accredited professional school of dentistry, medicine, or optometry that the first year of the respective professional program has been successfully completed and that the applicant is eligible to continue.

Request for the conferral of this degree is made to the Director of Records.

GENERAL STUDIES

Adviser: Wilma McClarty

The Associate of Arts degree with a major in General Studies is designed for students who have not made a career decision at the time they enter college. This degree offers them an opportunity to earn a large part of the general requirements for a baccalaureate degree while leaving approximately 20 semester hours free for exploration in areas of their choice.

ASSOCIATE OF ARTS DEGREE IN GENERAL STUDIES

	AREA	SEMESTER HOURS
A-1	English 101, 102 (and 099 if English ACT standard score is less than 13) . . .	6-9
A-2	Mathematics	3
B	Religion	6

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C	History (3-6); Government/Economics (0-3)	6
D	Language/Literature/Fine Arts (include two sub-areas)*	6-9
E	Natural Science (include two sub-areas)	6
F	Behavioral/Family/Health Science	3
G	Activity Skills (must include one hr. PEAC and no more than three hrs. from any one sub-area)	6
	Electives to make a total of 64 hours	16-22

* Six hours of elementary foreign language must be included unless two units of the same foreign language were earned in high school.

TYPICAL SEQUENCE OF COURSES FOR A.A. GENERAL STUDIES

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
ENGL 101-102	College Composition	3	3	Area B, Religion		3	
	Area B, Religion	3		Area E, Natural Science		3	
	Area E-1, Biology	3		Area D, Lang/Lit/Fine Arts		3	3
	Area G-3, Recreation Skills	1	1	Area A, Math		3	
	Area G-1, Creative Skills			Area C, Hist/Govt/Econ		3	
	OR		3	Area G-3, Recreation Skill		1	
	Area G-2, Practical Skills			Foreign Language		3	3
	Elective (area of interest)	3	3	Elective		4	3
	Area C, History	3	3				
	Area F, Behavioral Science		3				16
		16	16				

See pages 12, 13 and 15-18 for general degree and general education requirements. Note especially requirements for make-up of any admissions deficiencies.

NON-DEGREE PRE-PROFESSIONAL PROGRAMS

Pre-professional and pre-technical curricula are offered in a wide variety of fields. Below are listed the curricula most frequently chosen. If other pre-professional programs are desired, faculty advisors are prepared to assist the student in working out a satisfactory sequence of courses needed to meet the admission requirements of the chosen professional school.

ANESTHESIA

Adviser: Katie Lamb

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

DENTISTRY

Adviser: Duane Houck

Pre-dental training in college requires a minimum of three years of study; however, a preference is given to those who have completed a fourth year, earning a bachelor's degree. Students may major in the field of their interest. Although a thorough background in the biological and physical sciences is essential to the study of dentistry, a broad educational background in the humanities is desirable. Upper division biology courses are recommended to prepare for the Dental Admissions Test.

Application to Dental School should be made one year previous to the one for which admission is required. Successful applicants should have a minimum G.P.A. of 3.00 in both science and non-science courses, satisfactory performance on the Dental Admissions Test (given each October and April). Information regarding the Dental Admission Testing Program may be obtained from the American Dental Association, 211 East Chicago Avenue, Chicago, IL 69611.

The following courses must be included to meet the minimum requirements for admissions to the LLU School of Dentistry:

BIOL 151-152	8 hours
BUAD 334	3 hours
CHEM 151-152, 311-312, 313-314	16 hours
ENGL 101-102	6 hours
MATH 114	3 hours
PHYS 211-212, 213-214	8 hours
PSYC 124	3 hours
Physical Education	1 hour
Religion	9 hours
Electives	8 hours

The following courses are strongly recommended:

FDNT 125	3 hours
TECH 174	4 hours
ACCT 103	3 hours
MATH 181	3 hours

An additional Psychology course

Non-Degree Pre-Professional Programs

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LAW

Adviser: Ben McArthur

Students interested in the study of law as a profession should become acquainted with the entrance requirements of various law schools. This will make possible the planning of a pre-professional program which will qualify the student for admission to several schools. It is a general requirement that students complete a bachelor's degree before entering law school. Although no particular major is required, four fields should be especially considered by the student serious about law school. These are: Business, history, English, and behavioral science. Certain courses recommended by all law schools include American history, freshman composition, principles of accounting, American government, principles of economics, English history, business law, and mathematics. Pre-law students should concentrate on developing their analytical, verbal, and writing skills.

Information about preparation for law school may be obtained from the Section of Legal Education and Admissions to the Bar, American Bar Association, 1155 East 60th Street, Chicago, Illinois 60637. For information about the Law School Admissions Test write the Law School Admissions Service, P.O. Box 2000, Newtown, PA 18940.

MEDICINE

Adviser: Stephen A. Nyirady

Secondary school students who look forward to a career in medicine are advised to include mathematics and science courses during their high school years.

It is recommended that applicants complete a Bachelor's Degree prior to entrance into medical school. Exceptional students may be eligible to apply after completion of a minimum of 85 semester hours. Letter grades are essential for evaluation of the required science courses. Applicants for admission to the Loma Linda University School of Medicine should maintain a grade point average of at least 3.50 in both science and non-science courses. The following courses must be included in the applicant's academic program. Classes with asterisks in biology, chemistry, and mathematics are recommended.

BIOL 151-152, 313*, 316*, 330*, 340*, 415*, 417*, 418* .	8 hours
CHEM 151-152, 311-312, 313-314, 323*	16 hours
ENGL 101-102	6 hours
MATH 114, 181*	3 hours
PHYS 211-212, 213-214	8 hours
Religion	12 hours

It is recommended that students plan a curriculum that includes

study of the humanities and social sciences to provide a solid preparation for the future role of the physician.

Applicants are also encouraged to obtain experience where they are directly involved in the providing of health care.

The applicant is required to have taken the new MCAT prior to consideration by the admissions committee. The medical school entrance exam is administered twice a year—in September and April. Application for the exam is made through the Counseling and Testing Center one month before the exam is scheduled. For entrance into medical school following graduation, the student should plan on taking the MCAT in April of the junior year which means that all of the above listed science courses should be completed by this time to insure maximum performance on the exam. The exam may be retaken in September of the senior year.

Once or twice each year representatives from LLU and other schools of medicine visit the campus to interview prospective students. Premedical students are encouraged to make appointments to speak with them.

Most medical schools are members of the American Medical College Application Service (AMCAS). Applications must be submitted through this service. The AMCAS application may be obtained either at the college the applicant is attending or directly from AMCAS. Application should be directly to AMCAS between July 1 and November 1 for entry in the summer of the following year.

American Medical College Application Service
1176 Massachusetts Avenue, N.W.
Washington, DC 20036-1989

After receiving the applications from AMCAS, the admissions office of the medical school reviews the candidates and determines whether or not supplementary information is needed.

Medical schools usually require a letter of recommendation from the pre-professional recommendation committee of the applicant's undergraduate college. Senior pre-medical students are asked to provide the names of all medical schools to which they are applying to the Vice President for Academic Administration's office before October 5.

Following a careful evaluation of the supplementary application and letters of recommendation submitted to the admissions office, selected applicants may be invited for a personal interview by the medical school.

OPTOMETRY

Adviser: Ray Hefferlin

The admission requirements to colleges of optometry vary, so the student should follow the catalog from the school of his or her choice.

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However, all place emphasis on biology, chemistry, mathematics and physics. Additional courses in the areas of fine arts, language, literature, and the social sciences are usually necessary.

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

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

BIOL 330 and 151-152	11 hours
CHEM 151-152	8 hours
ENGL 101-102	6 hours
MATH 114, 181, 182	11 hours
PHYS 211-212, 213-214	8 hours
PSYC 124	3 hours

Direct individual inquiries are welcomed by the American Optometric Association, Division of Education and Manpower, 243 North Lindbergh Blvd., St. Louis, MO 63141.

OSTEOPATHIC MEDICINE

Adviser: Stephen A. Nyirady

An alternative to allopathic medical schools, which grant the M.D. degree, are the osteopathic medical schools whose graduates receive the D.O. degree.

Many Seventh-day Adventists have attended the University of Health Sciences, Kansas City School of Osteopathic Medicine, one of twelve osteopathic medical colleges in this country.

Courses for admission are similar to those for Loma Linda University School of Medicine.

For a reasonable chance of acceptance, a minimum grade point average of 3.00 should be maintained in both science and non-science subjects.

PHARMACY

Adviser: Mitchell Thiel

The bachelor's degree program in pharmacy normally requires five years, the first two years of which may be taken at Southern College.

Admission requirements to colleges of pharmacy are somewhat variable so the student should consult the catalog of the school of his choice for specific course recommendations.

Minimum admission requirements to the University of Tennessee College of Pharmacy at Memphis are:

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ACCT 121	3 hours
BIOL 151-152	8 hours
CHEM 151-152, 311-312, 313-314	16 hours
ENGL 101-102	6 hours
PHYS 211, 213	4 hours

Additional requirements include:

Literature or Foreign Language	4 hours
Social Sciences:	
Psychology	2 hours
Other	4 hours
Speech	2 hours
Electives	12 hours

A minimum grade of C must be obtained for each required pre-pharmacy class. A higher grade point average will increase the chance of acceptance into pharmacy school. In addition, a satisfactory score must be achieved on the National Pharmacy College Admission Test.

PUBLIC HEALTH SCIENCE

Adviser: Elvie Swinson

There is an increasing demand for programs that promote health and disease prevention. Two major factors influencing this demand are (a) an effort to slow down or decrease the rising costs of medical care and (b) emphasis on improving the quality of life. The undergraduate program in public health science at Loma Linda University (LLU) provides an opportunity to emphasize the prevention of illness and the promotion of health. The first two years of the program are offered at Southern College after which the student transfers to LLU to complete the work to receive the bachelor's degree in public health science. The following courses should be included in the pre-public health science curriculum to qualify for admission to LLU. Students not having had high school physics must enroll in college physical science.

ENGL 101-102	6 hours
Humanities (include at least two areas: speech (highly recommended), fine arts, foreign language, HMNT 205, literature, philosophy)	9 hours
BIOL 101-102 or 151-152, and 125	9-11 hours
CHEM 111-112, 113, 114	8 hours
MATH 104	3 hours
PSYC 124, SOCI 125, ECON 225	9 hours
Religion	9 hours
Electives sufficient to make a total of 64 hours chosen in consultation with adviser.	

The Allied Health Professions Admission Test is required.

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VETERINARY MEDICINE

Adviser: Stephen Nyirady

Competition for admission to colleges of veterinary medicine is very keen. Consequently, most successful applicants have completed a degree rather than the required minimum of two years of college. It should also be noted that it is difficult to be accepted in any veterinary institution other than the school in the state where the applicant resides.

The applicant must make a satisfactory score on the Veterinary Aptitude Test in addition to meeting grade point average and personal qualifications for admission. Professional training entails another four years of school beyond college.

Minimum admission requirements to the University of Tennessee College of Veterinary Medicine in Knoxville are:

BIOL 151-152, 330	11 hours
CHEM 151-152, 311-312, 313-314, 323	20 hours
ENGL 101-102	6 hours
MATH 114, 181	7 hours
PHYS 211-212, 213-214	8 hours

Additional requirements include:

Humanities	8 hours
Social Sciences	8 hours
Speech	2 hours
Animal Science (not offered at Southern College)	9 hours

(Some schools will accept a full year of general biology or zoology in lieu of Animal Science—one needs to check with the institution.)

It is recommended that the pre-veterinary student work closely with his adviser in assuring that the specific requirements for the schools of his choice are met.

STUDENT LIFE AND SERVICES

A college is not only classroom instruction, but also a mode of association. The effectiveness of the college program is enhanced if students develop their interests and meet their needs through participation in the nonacademic activities provided. Students are encouraged to take advantage of the facilities and opportunities planned for their cultural, social, and spiritual growth.

RESIDENCE HALL LIVING

Living in a college residence hall with its daily "give and take" prepares the student to meet life with equanimity, teaches respect for the rights and opinions of others, and offers a first-hand experience in adjusting to a social group.

To assure students this beneficial experience, the college requires those students who take more than three semester hours of classwork and who are unmarried, under 23 years of age, and not living with their parents or other approved relatives in the vicinity to reside in one of the residence halls.

REHABILITATION ACT (1973) Section 504: Services for Students with Special Needs

Southern College is dedicated to the elimination of architectural and prejudicial barriers which prevent any qualified person from attending. All applications are welcomed. Students who anticipate the need for special services are encouraged to arrange with the Admissions Office for a visit to the campus at which time the applicant will receive information concerning all features of campus life and can share with the college officials any information pertinent to personal needs.

DINING

For the promotion of student health and enjoyment, Southern College provides a complete cafeteria service, organized to serve the students' needs. The spacious dining hall is an inviting center of social and cultural life at the college, and service by the cafeteria staff is available for the many student and faculty social functions. Auxiliary dining rooms are available for meetings of various student or faculty organizations.

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HEALTH SERVICE

The Health Service is administered by a nurse director in cooperation with a college physician and the Vice President for Student Services. The director uses the physician's standing orders and maintains regular office hours. The college physician holds regular clinic hours each weekday morning.

An infirmary is provided and staffed in the evenings and at night on an on-call basis by live-in registered nurses who are continuing for the B.S. degree.

The Health Service is available to all dormitory occupants and all students taking eight or more hours (three hours in the summer). The infirmary is available to all dormitory occupants. There is no charge for seeing a nurse or using the infirmary. There is a minimal charge to cover costs of equipment used in some treatments. Medications given are charged by the pharmacy.

All students taking eight hours or more must purchase the Student Accident and Sickness Insurance Plan or show proof of adequate coverage by another policy. Spouses of students and those taking less than eight hours may also purchase the plan. A policy brochure describing complete benefits and terms is given to each student at registration. In case of major illness, students may be referred to off-campus hospital facilities.

GUIDANCE AND COUNSELING SERVICE

During registration each student is assigned an academic adviser who will assist in program planning and give advice and guidance on academic questions throughout the school year. Students may also seek counsel concerning academic or personal problems from any member of the faculty.

Students with personal problems who wish assistance from a professional counselor should consult the Vice President for Student Services or Director of Counseling Services. Personnel trained in psychology and counseling are available to those with serious social and personal problems.

The testing service works in close cooperation with the counseling service in providing guidance information to both students and counselors. Students are urged to take advantage of the testing service as a means of obtaining information useful in choosing a profession or occupation.

ORIENTATION PROGRAM

Southern College has a personal interest in the success of the student desiring a college education. There is much that the student must do for himself in getting acquainted with the academic, social, and religious life of the college by perusing this bulletin and the *Southern College*

Student Handbook. Instruction and counsel are given which will help the student better understand the college program and what is expected of him as a citizen of the college community.

Orientation for new freshman students is held prior to registration for the fall term. It includes examinations and instruction helpful in course planning. The student is introduced to the facilities, purposes, and functions of the college. Social occasions are also provided when students may meet faculty members and fellow students. All new freshman students are required to attend the orientation program.

STUDENT EMPLOYMENT SERVICE

Southern College encourages every student enrolled to organize his educational program on the study-work plan. It is a policy of the college to give students first priority for jobs. If a student wants to work, is physically and emotionally able to work, and has arranged his class schedule to accommodate a reasonable work schedule, he should be able to obtain employment on campus. Students seeking employment should contact Student Employment Office located in the Student Center.

SENIOR PLACEMENT SERVICE

One of the personnel services of the college is that of assisting graduates in securing appointments for service. The Placement Service distributes information concerning senior students to a wide list of prospective employers. The offices of Student Services and Testing and Counseling serve as the liaison sources in bringing graduate and employer together.

STUDENT ASSOCIATION

Every student at Southern College who is taking eight or more semester hours of classwork is a member of the Student Association with voting privileges in the election of officers. Opportunities for leadership development and for cooperation in achieving the objectives of Southern College are afforded by the Association. The Association assists the college administration and faculty in the implementation of policies and assumes responsibility in giving direction to campus activities entrusted to it.

The Association's activities are coordinated and communicated through the Student Senate and Cabinet and their several committees. The activities include the publishing of the weekly newspaper, *Southern Accent*; the yearbook, *Southern Memories*; the announcement sheet, *Campus Chatter*; and the student-faculty directory, *Joker*.

The activities and responsibilities of officers and the detailed organization of the Student Association are outlined in the *Student Association Constitution and Bylaws*.

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CAMPUS ORGANIZATIONS

Aside from the Student Association and its committees, more than thirty campus organizations provide opportunity for enrichment, leadership training, and enjoyment. They include church-related organizations—Campus Ministry, Student Ministerial Association, Collegiate Adventists for Better Living, and Literature Evangelists Club; clubs related to academic interests sponsored by the departments; social clubs—Married Couples' Forum, Sigma Theta Chi (women's residence hall), and Upsilon Delta Phi (men's residence hall); and special interest or hobby clubs.

Students may join any of the clubs but must have a cumulative grade point average of 2.25 or a grade point average of 2.50 for the previous semester to hold any elected office.

CONCERT-LECTURE SERIES

Each year a concert-lecture series featuring significant artists, lecturers, and film travelogues is provided for students, generally in connection with the weekly assembly program. The cost of admission for students is included in the tuition.

STANDARDS OF CONDUCT

In harmony with the objectives of the college, high standards of behavior are maintained to encourage the development of genuine Christian character. Mature Christian students of sound spiritual and social integrity appreciate standards that elevate and ennoble. Admission to Southern College is a privilege that requires the acceptance of and compliance with published and announced regulations. Only those whose principles and interests are in harmony with the ideals of the college and who willingly subscribe to the social program as ordered are welcomed. It therefore follows that since students at Southern College receive an education subsidized by the Seventh-day Adventist Church, those who engage in activities designed to be detrimental to the church on or off campus will not be knowingly accepted or retained.

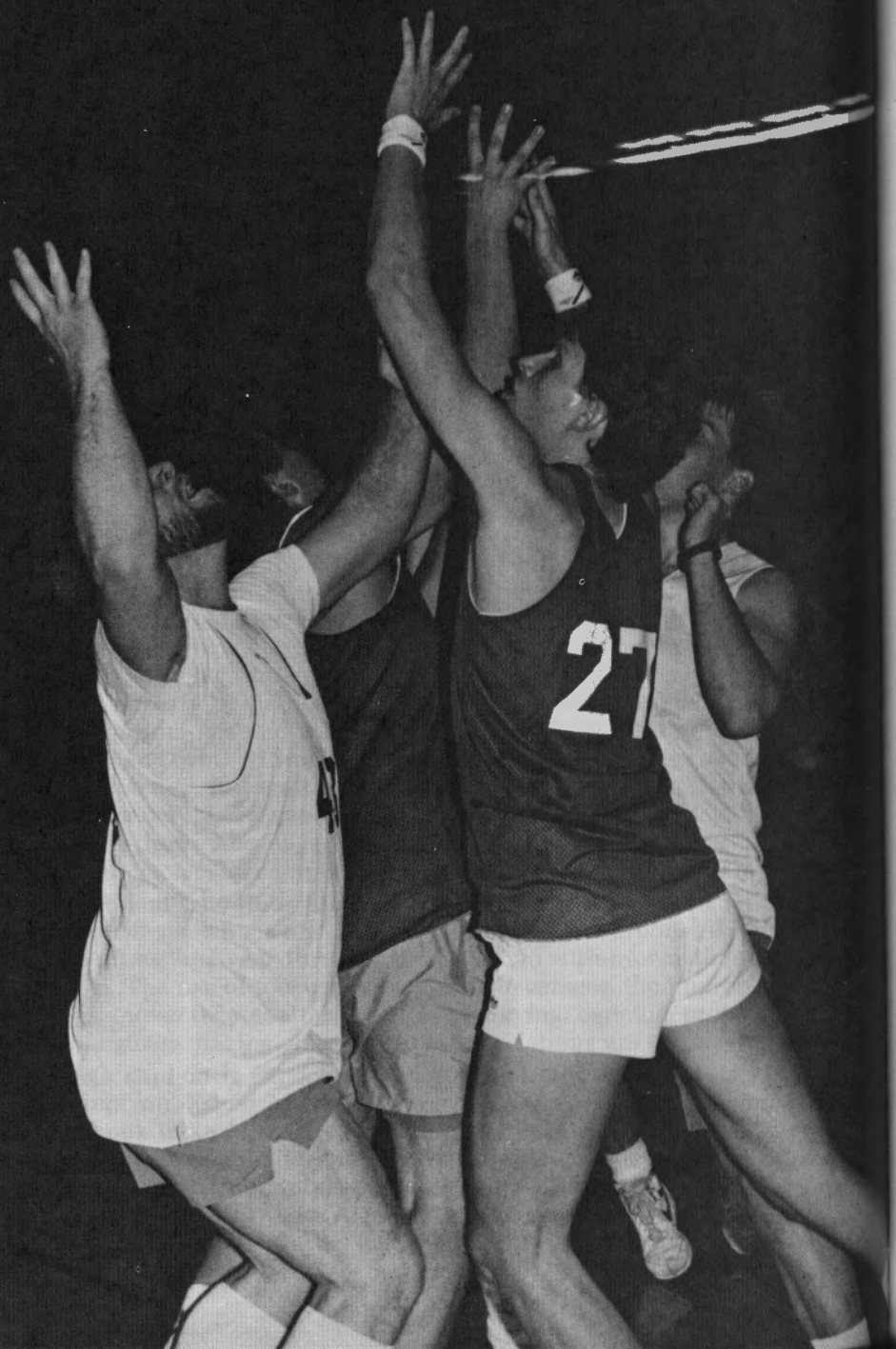
A student who finds himself out of harmony with the social policies of the college, who is uncooperative, and whose attitudes give evidence of an unresponsive nature may be advised to withdraw without specific charge. The use of tobacco or alcoholic beverages, the improper use of drugs, movie theater attendance, card playing, dancing, profane or vulgar language, hazing, and improper associations are to be avoided.

Each student is expected to acquaint himself with the standards of conduct published in the *Southern College Student Handbook*. The handbook includes levels of social discipline and the appeal route. A copy may be obtained from the office of the Vice President for Student Services. Interim announcements of policies adopted by the faculty are of equal force with those listed in official publications.

ASSEMBLY AND WORSHIP SERVICES

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In private parochial education it has been shown that elimination of residence hall worships and all school-wide convocations is the first step toward the separation of the school from its sponsoring church. Convocation exercises in the residence halls and for the entire student body serve educational and religious purposes. They also provide an element of unity which is one of the most desirable features of private education such as is found at Southern College. The religious emphasis weeks and the weekend church services assist in the spiritual growth of the students. Students are required to attend these services regularly. Failure to do so will jeopardize the student's current status and readmission privileges.



FINANCIAL POLICIES

EXPENSES

FINANCIAL BUDGET AND CAMPUS EMPLOYMENT

Southern College strives to give every student the opportunity to obtain a Christian education. The administrators and Financial Aid Office personnel will make every effort to assist students in meeting their financial obligations in order to reach this goal.

The Director of Financial Aid will assist in financial planning by helping students to obtain employment on the Collegedale campus (see labor regulations on page 251) and financial aid in the form of grants, loans, and scholarships. Before each registration EACH student must submit a payment agreement to the Student Finance Office showing how he will finance his college expenses.

Information on student costs and means of paying those costs is given below to assist the student in financial planning.

STUDENT COSTS

Tuition 1989-90:

Students taking 1-11 semester hours will be charged at a rate of \$263 per semester hour. Students taking 12-16 semester hours will be charged \$3,100. Additional hours will be charged at the rate of \$195 per semester hour.

ESTIMATED STUDENT BUDGET

Tuition (Based on 12-16 hours per semester)	\$6,200
Books, Supplies, and Miscellaneous	390
Resident Hall	1,232
Food (\$186/month average) (monthly minimum charge \$80)	1,490
TOTAL	\$9,312*

*With financial aid and/or labor, this total figure can be substantially reduced.

FAMILY REBATE

When two students from the same immediate family are in attendance at SC each taking eight semester hours or more and having the same financial sponsor, a tuition rebate of five percent will be applied to each statement. A 10 percent rebate will be applied when three or more students have the same financial sponsor and are taking eight or more

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semester hours each. Application forms for this rebate will be available at the Student Finance Office.

SOUTHERN SCHOLARS' FINANCIAL BENEFITS

After completing one year in the honors program, Southern Scholars may receive a scholarship for the cost of auditing one class for each semester that they remain in the program. Beginning with their junior year, the student will also receive a scholarship covering a three-hour class each semester. Also, a scholarship will be granted to cover Honors Seminar HMNT 451, 452. The "per-hour" rate for a 16-semester hour class load will be the basis for calculating these scholarships.

MUSIC

Private music lessons are offered for academic credit by the music faculty of Southern College and qualified teaching instructors (contract teachers) from the Chattanooga area. Private lessons without academic credit are offered through the prep program of the Music Division to elementary and secondary students in the area. Teaching in the prep program is done by contract teachers and Southern College music students.

Enrollment for all music instruction must be for a full semester whether or not credit is desired. A minimum of fourteen one-half hour lessons will be provided. No refund of tuition or lesson fees will be made after four weeks following registration.

MUSIC LESSON FEES

Private music lessons may be taken on a credit or noncredit basis. A student will receive fourteen half-hour lessons per semester for one hour of credit. The cost of such lessons is the regular tuition plus a \$98 music lesson fee per semester.

The noncredit music lesson fee is \$232 for fourteen half-hour lessons per semester.

Teachers are not expected to make up lessons missed because of unexcused absences.

Music majors who have obtained Freshman standing in their major performance area, who are taking or have completed MUCT 111/112; and who are in good and regular standing as music majors will have the music lesson fee waived.

Prep program students must register at the Department of Music office, pay in full at the Cashier's Office, and present the receipt to the Music Department office prior to scheduling lessons.

SPECIAL FEES AND CHARGES

The following special fees and charges* are assessed separately inasmuch as they may not apply to all students nor do they occur regularly:

Application for admission (not refundable)	\$ 15.00
Audit tuition	½ reg. tuition
Automobile parking fee (per semester) — dormitory	\$ 34.00
Automobile parking fee (per semester) — village	\$ 23.00
Motorcycle parking fee	\$ 23.00
Change of program	\$ 12.00
Credit by examination (per hour) Recording Fee	\$ 30.00
Examinations:	
Challenge or waiver	\$ 45.00
CLEP	\$ 34.00
Rescheduling mid-term or final	\$ 59.00
Incomplete grade recorded	\$ 7.00
Insufficient funds check	\$ 18.00

**Insurance:

Student	\$180.00
Spouse	\$470.00
Each Child	\$325.00
Late Registration	\$ 29.00
Late return of organizational uniform	\$ 18.00

(The full cost will be charged if irreparably damaged or not returned.)

Medical Technology Recording Fee (senior year)	\$ 53.50
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***Nursing education fees:

Associate degree (per semester)	\$192.50
Baccalaureate degree (after completing Assoc. Degree) (per nursing semester hour)	\$ 12.00
Transcript fee	\$ 3.00
One-day service	\$ 5.00

*See individual class descriptions for class fees and charges.

**Subject to change.

***Declared nursing majors enrolled in a nursing class.

STATEMENT CHARGES

The following items may be charged to the student's account:

- Books and required school supplies (required school supplies limited to \$75 per semester).
- Private music instruction. Enrollment for all music instruction must be made through the Admissions Office for a full semester whether or not credit is desired. One semester hour of private music instruction consists of fourteen one-half hour lessons.

Refunds will be granted only when the instructor is not available for lessons.

HOUSING

Residence Hall Costs

Dormitory accommodations for single students cost \$1,232 for the eight-month school year and are charged on a semester basis in August and January. Room charges are based on two students occupying one room and include health and infirmary care.

A student may, upon application to the residence hall dean, be allowed to room alone at an additional cost of \$230 per semester if sufficient rooms are available.

No refunds are made for vacation periods or absences from the campus. If a student drops classwork, a prorated portion of the semester charge beginning with the date of nonoccupancy of the room will be refunded.

Room Deposits

A \$100 room deposit, paid at time of application, is required of each dormitory student enrolling at Southern College. It should be paid initially by July 1 in order to insure a specific room reservation. The deposit will then be held by the college for the entire period including summers during which the student lives in a residence hall while attending the college and will insure a room for the student when he returns each fall.

If a student gives notice before July 1 that he will not be attending, his room deposit will be refunded. The room deposit will not be refunded after August 1. Damage or cleaning charges may also be charged to the student's account at the end of each academic year if necessary.

Married Student Housing Costs

College-owned apartments and mobile homes may be rented by married students taking a minimum of six hours each semester. The apartments range in size from two to six rooms and are unfurnished. Rents range from \$130 to \$255 per month. Trailer space is available at \$85 per month in the College Mobile Home Park for married students with their own trailer. Moving and parking charges are the responsibility of the owner. Storage facilities are available for an additional \$10 per month.

Rent charges are based on the date of issue and return of keys and proper clearance with the Housing Manager (Business Manager's Office). Married students renting either an apartment or a trailer from the college will be required to pay a housing deposit of \$125 of which \$50 is due with the housing application and the remaining \$75 at the time the apartment or trailer is rented. This deposit will be refunded after

approval by the Housing Manager if the apartment or trailer is left clean and undamaged.

FOOD SERVICE

The cafeteria plan of boarding allows the student the privilege of choosing food and paying for what is selected. Board charges for students vary greatly. Students are encouraged to eat healthfully by avoiding between-meal snacks and by eating at the cafeteria or the Campus Kitchen where balanced meals are provided. Dormitory students will be charged a minimum of \$80 per month. Maximum allowable cafeteria charge will be \$200 per month. Exceptions must be cleared through the Student Accounts Office.

ADVANCE PAYMENTS

Regular: An advance payment of \$850 is required before registration. For students residing in any dormitory or married student housing, housing deposits are due before moving in. For new students entering second semester the advance payment is \$650, and all other appropriate charges are applicable. When a married couple enrolls for a combined total of seventeen semester hours or less of classwork, they will be charged only one advance payment. One-half the advance payment with interest at 8% per annum from the date of payment will be credited to the student's account on the August statement and the remainder on the January statement.

International Students: In addition to the regular advance payment listed above, international students are required to pay the following:

Supplemental International Student Payment: \$3,000 is required to be paid before an Immigration I-20 form will be issued. It will be held until the student terminates study at Southern College. This deposit is not a part of, but in addition to, the regular deposit required of all students entering Southern College.

Nursing Students: Upon acceptance to the clinical nursing program, students are required to send a nursing deposit of \$175. If a student applies for the nursing program but does not attend the college, or changes his or her major, the deposit is refundable if the Division of Nursing is notified by August 1. After August 1, the nursing deposit is not refundable.

ADVENTIST COLLEGES ABROAD FINANCIAL POLICY

Students wishing to apply for study abroad under the Adventist Colleges Abroad (ACA) program must follow the procedures listed below:

1. Complete and submit the ACA application (obtain from Admissions Office) along with the \$100 application fee.

2. Make arrangements for the total amount of expenses and fees required by the selected college through the Southern College Student Finance Office at the time of application. Any difference in total cost and approved financial aid must be paid in cash prior to financial approval of the application.

METHOD OF PAYMENT

Community students and residence hall students may choose one of the two methods of payment below.

Payment Plan I. Cash in Advance. When the total estimated charges for tuition (minimum 6 hours), room, and board for a semester are paid in cash at registration, a discount of FIVE percent is allowed on this cash payment. Amounts paid as a result of student loans, grants, or scholarships are excluded from the amount on which the discount is allowed. Students choosing to pay cash in advance must bring with them at registration time the full amount required by the plan for the semester, less any advance payments or credits.

Payment Plan II. Contract with Southern College. Students desiring to pay educational expenses in installments on a monthly basis may choose this plan.

Monthly statements will be issued about the fifth day of each calendar month. Cafeteria charges will be charged through the last day of each month. Accounts are due and payable upon receipt of statement according to the following schedule (one-half of student's advanced payment will be applied to the August statement):

		<i>Past Due Date</i>
August statement	ONE-THIRD of (total charges less financial aid) less credits upon receipt of statement	September 20
September statement	ONE-HALF of (total charges less financial aid) less credits upon receipt of statement	October 20
October statement	TOTAL BALANCE of statement is due in full BEFORE semester examination permits will be issued.	November 20

The second semester statements and payment schedule will follow the same procedure as the first semester with the remainder of the student's advance payment applied to the January statement.

		<i>Past Due Date</i>
January statement	ONE-THIRD of (total charges less financial aid) less credits upon receipt of statement	February 20
February statement	ONE-HALF of (total charges less financial aid) less credits upon receipt of statement	March 20

March statement **TOTAL BALANCE** of statement is
due in full **BEFORE** semester
examination permits will be
issued. April 20

The above schedule of payment must be maintained since the college budget is based upon 100 percent collection of student charges.

Students with unpaid accounts on the 20th of the month will be subject to cancellation of registration and/or ID cards invalidated until account is current.

Arrangement for final payment of the semester account must be made before semester examinations may be taken or before registration for a new semester.

TRANSCRIPTS, DIPLOMAS AND TEST SCORES

It is the policy of the college to withhold transcripts, diplomas, test scores, certificates of completion, and other records if a student has an unpaid or past due account at the school, or any unpaid account for which the college has co-signed.

Official grade transcripts will be issued for currently enrolled students when the students' accounts are current according to the payment schedule set forth above. No exceptions will be made.

Official grade transcripts for non-enrolled students will be issued when students' accounts are paid in full and when there are no delinquencies in the payment of student loans. No exceptions will be made.

To expedite the release of these documents, the student should send a money order or certified check to cover the balance of the account when requesting the documents. Under provisions of federal loan programs, Southern College withholds any records when payments for these loans become past due or are in default.

REFUND POLICY

Complete Withdrawal from Classes

A student who withdraws from all schoolwork during the semester will receive a tuition refund based on the date the completed withdrawal form with all the required signatures is filed with the Records Office. Tuition refunds are calculated as follows:

First five (5) school days of the semester	95%
Sixth through 37th school day of the semester	3% less per day

No refunds after the 37th school day of the semester.

Registration Changes

Refunds of tuition for semester hours dropped are made according to the date the drop form with all the required signatures is filed with the Records Office. Tuition refunds are calculated as follows:

Expenses

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First five (5) school days of the semester 100%
Sixth through 25th school day of the semester 5% less per day
No refunds after the 25th school day of the semester.

Shortened School Term (Summer or Other) Withdrawals and Changes

First two (2) school days 100%
Third (3rd day through end of term) Prorated through mid-term

CREDIT REFUND POLICY

Credit balances are refundable, on request, 30 days after the monthly statement is received for the last month the student was in school in order to be certain that all charges have been processed. For example, if a student drops out of school in December, a full credit refund would not be made until after the January statement is prepared during the first week of February. When the credit balance is large, a portion may be refunded earlier upon request to the Student Finance Office.

If the student has received financial aid during the current semester, any credit balance will be credited to the aid funds, according to the Financial Aid Refund Policy (see page 258). Cash refunds will not be made to the student without authorization from the parent or financial sponsor.

COLLECTION POLICY

Students completing or terminating their studies with the college are requested to make arrangements for payment of unpaid accounts. If arrangements are not made within 120 days after a student leaves Southern College, the unpaid account balance will be submitted to a collection agency or attorney. Since delinquent accounts are reported to the Credit Bureau systems, prompt payment of accounts build credit ratings which will be important to you in the future.

If the college deems it necessary to employ a collection agency or an attorney to collect defaulted accounts, all charges for these services, including court costs, if incurred, will be added to unpaid bills.

INTEREST

Currently enrolled students will be charged interest at a rate of $\frac{3}{4}$ of 1% per month (9% APR) on any past-due balance still outstanding by the end of the month wherein payment is due.

A carrying charge of 1% per month (12% APR) will be added to all unpaid balances of 60 days or more for students not enrolled in school.

HEALTH INSURANCE

Southern College requires that students be covered by health insurance. Students who are covered with a similar insurance plan may,

during registration, make a request of Health Service to be excluded from the student group health insurance. **Such students will need to supply, at that time, written evidence from their parent's employer or local insurance agent which contains the company name and policy number under which they are covered, otherwise, coverage must be purchased through the college health insurance plan.**

BANKRUPTCY

Recognizing that the discharge of a debt through bankruptcy proceedings prohibits a creditor from subsequently pursuing the collection of the debt, the college, upon notification of such discharge of a student's current school or loan account(s), complies with this legal prohibition.

NON-LIABILITY FOR PERSONAL EFFECTS

When determining what to bring to campus, please remember that the college is not responsible for the personal effects of any student even though such effects may be required by the college for student use, or required by the college to be stored in a designated location. College-carried insurance does not insure the personal effects of any individual. The college recommends that students consider carrying insurance to cover such losses.

WORKER'S COMPENSATION INSURANCE

As provided by the laws of the State of Tennessee, the college carries worker's compensation insurance to protect all employees in case of work-connected accidents.

BANKING AND CASH WITHDRAWALS

The Accounting Office operates a no-charge deposit banking service for the convenience of the student. **Financial sponsors should provide students with sufficient funds through the banking service to cover the cost of personal items of an incidental nature and travel expenses off campus including vacation periods.** Withdrawals may be made by the student in person only as long as there is a credit balance. These deposit accounts are entirely separate from the student's regular school expense account.

STUDENT LABOR REGULATIONS

Work opportunities for students are available in departments and industries operated by the college and local private businesses. These employing agencies must serve their customers daily, necessitating a uniform work force. Student employees are responsible for meeting all work appointments, including during examination weeks, and to main-

Expenses

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tain satisfactory job performance. Work superintendents reserve the right to dismiss students if their service and work record is unsatisfactory. Should a student find it necessary to be absent from work, he must make arrangements with his work superintendent and Student Health Service if he is ill.

Residence hall students are given preference in the assignment of work. Student Employment Office personnel will assist students in finding jobs providing the student arranges a class schedule that allows "blocks" of time for work, is physically able and willing to accept any job offer since the college is unable to provide "preference" work. Students must be enrolled for a minimum of six semester hours to be eligible for campus work.

When a student accepts employment, he is expected to retain it for the entire semester except in cases where changes are recommended by the school nurse or Student Employment Office. Should a student receive opportunities for more favorable employment during a school term, the transfer must be made through the Student Employment Office and the two employing organizations. If a student's financial plan requires him to work, he must NOT drop his work schedule without making proper arrangements with the Student Employment Office. To do so could result in suspension from class attendance and invalidation of ID card until proper arrangements are made.

The student pay rate is not less than student rates set by the government wage-hour law. It may be higher if a student possesses special skills or training and shows responsibility and consistency.

The following table is an example of earnings for students who work 30 weeks during the school year.

Hours Worked Per Week	Wage Per Hour	Total Earnings For Year
10	\$3.35	\$1,005
10	\$3.50	\$1,050
10	\$4.00	\$1,200
10	\$4.35	\$1,305
10	\$4.50	\$1,350
15	\$3.35	\$1,507
15	\$3.50	\$1,575
15	\$4.00	\$1,800
15	\$4.35	\$1,958
15	\$4.50	\$2,025
20	\$3.35	\$2,010
20	\$3.50	\$2,100
20	\$4.00	\$2,400
20	\$4.35	\$2,610
20	\$4.50	\$2,700

Students may also work off campus; however, permission may be

withheld for off-campus employment that could be detrimental to a student's health or character development.

WORK INCENTIVE SCHOLARSHIP

In order for a student to qualify for a \$200.00 work incentive scholarship each semester, the student must meet the following criteria:

1. Work at least 12 hours per week and 180 hours per semester between the hours of 6:00 a.m. and 12:00 noon.
2. All work must be performed in at least 3-hour blocks at an on-campus employer or at an off-campus non-profit agency (work-study).
3. The student must take at least 8 hours of academic credit (which can be any time of the day) at Southern College.
4. All academic course work for the semester in addition to the 8 hours must also be taken at Southern College.
5. The bonus must be applied for at the end of the semester and approved by the work superintendent.
6. The approval of this bonus will be processed by the labor office and also approved by the Financial Aid Office.
7. This bonus is based on the assumption that a job is available and the student meets all of the above criteria.
8. The work incentive scholarship is in addition to the regular hourly wage received.
9. Southern College in no way guarantees that there will be enough jobs to meet the criteria of 1 and 2. Since there are a limited number of jobs in the morning, it is up to the student and the work superintendent to work out a work schedule that satisfactorily meets these criteria.

LABOR FOR FOREIGN STUDENTS

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

STUDENT TITHING

SC encourages the payment of tithe and church expense by its student workers. In order to facilitate this practice, arrangements may be made by the student (except for those employed in the Federal Work-Study Program) to have ten percent of his school earnings charged to his account as tithe and two percent for church expense. These funds are then transferred by the college to the treasurer of the Collegedale Seventh-day Adventist Church.

HALF-PRICE TUITION PLAN

A special half-price tuition plan has been established for **baccalaureate graduates** who wish to continue studies at Southern College in order to pursue another major, enter a pre-professional program, or update their skills. The provisions that apply are:

1. To be eligible for tuition at half price, students must have earned a bachelor's degree from an accredited college or university and have a clear transcript, with accounts and loan payments up-to-date with the college or university.
2. Regular admission criteria apply to this program. Completed applications, college transcripts, and recommendations must be on file in the Admissions Office of Southern College no later than two weeks prior to the beginning of the semester for which the graduate is applying.
3. Students wishing financial aid must apply through the Financial Aid Office.
4. This plan is applicable to classes where space is available and where the hiring of new faculty or staff is not required. The half-price offer does not include private music lessons, independent study, directed study, student teaching, internships, Associate Degree nursing, or a program where a tuition discount is already in effect.
5. Since the half-price offer is for *tuition only*, it does not apply to lab fees, surcharges for applicable courses, dormitory charges, or cafeteria charges.
6. Southern College reserves the right to discontinue this special tuition offer at the discretion of the college administration.

SENIOR CITIZEN TUITION POLICY

Persons over sixty-five (65) years of age may audit any regular college course free of charge, provided there is space available and sufficient enrollment of students paying regular tuition to offer the class. Lab fees will be charged where required.

They may take classes for college credit at one-fourth the regular rate, provided there is space available and sufficient enrollment of students paying regular tuition to offer the class. Lab fees will be charged where required.

They may enroll for seminars, workshops, other courses offered outside the regular academic structure, and private lessons at full price.

FINANCIAL AID

Southern College provides financial aid for students in the form of loans, grants, scholarships, and employment. No applicant for financial aid will be denied assistance on the basis of sex, race, color, national origin, or ethnic group. The Student Finance Office follows established procedures and practices which will assure equitable and consistent treatment of all applicants.

Students are urged to contact the Director of Student Finance, P.O. Box 370, Collegedale, Tennessee 37315-0370, for information about and applications for financial aid. Applications received by May 1 will be given preference. Applications received after May 1 will be processed as long as time and funds permit.

General Requirements. Financial aid awards are made for one academic year to students who are accepted for admission, plan to take at least twelve semester hours of classwork each semester, and demonstrate financial need. Class load exceptions must be approved by the Student Finance Office. Recipients of government aid must hold **U.S. citizenship** or a permanent resident visa. (Visa documents must be submitted with aid application.) Students desiring aid must reapply each year.

Financial Need Requirements. The financial aid program is administered in conjunction with the nationally-established policy and philosophy which is, that **the parents are the primary and responsible source for helping a student to meet his educational costs.** Financial aid is available to help fill the gap between the student's own resources (parental contribution, summer earnings, and savings) and the total cost of attending Southern College. The amount of parental contribution is based on the family's net income, number of dependents, allowable expenses, indebtedness, and assets. The Family Financial Need Analysis from the American College Testing Program or College Scholarship Service is used in determining a student's eligibility for financial aid.

Exceptions to the financial need requirements are private scholarships awarded on the basis of academic achievement.

Academic Requirements. In order to be eligible for financial aid, recipient must maintain satisfactory academic progress. Satisfactory academic progress is defined below. If a student does not maintain satisfactory academic progress or fails to attend classes, prepare and submit required classwork, or take required examinations, financial aid will be suspended.

If a student whose financial aid has been suspended for any of the above reasons feels that unusual and unavoidable circumstances led to this suspension, the suspension may be appealed to the Academic Progress Committee. This policy is generally applied to financial aid from institutional and private sources as well as federal programs.

SOUTHERN COLLEGE ACADEMIC PROGRESS FOR FEDERAL AND INSTITUTIONAL STUDENT FINANCIAL AID

To be eligible for Federal and/or Institutional financial aid, a student must maintain measurable satisfactory academic progress.

Financial aid recipients will be expected to complete a minimum of 25 hours of academic credit each school year (July 1 to June 30). This will allow up to five years maximum for completion of a four-year degree, and three years maximum to complete a two-year degree.

For the purpose of this policy, satisfactory academic progress is defined as maintaining a cumulative, overall, and resident grade point average above the suspension levels as stated in the following schedules:

<i>Semester Hours</i>	<i>Financial Aid Suspension Level</i>
6-48	1.50
49-64	1.65
65-80	1.75
81-93	1.85
94-119	1.95
120 up	2.00

A student's financial aid will be suspended if he does not maintain satisfactory academic progress as set forth above.

Financial Aid Probation Policy

1. Students who fail to maintain "satisfactory academic progress" will be placed on financial aid probation the following semester. The recipient must see a financial aid counselor before aid will be released for the probationary semester. This aid is subject to adjustment or cancellation.
2. A minimum Southern College and cumulative GPA as listed in the requirements above must be attained by the end of the probation semester or financial aid will be suspended.

Procedure for Appeal and Reinstatement of Financial Aid

Students may submit a written appeal to the Academic Progress Committee describing the circumstances which contributed to their failure to make academic progress. This appeal must also include an outlined program of commitment to meet measurable satisfactory academic requirements.

When financial aid is suspended, a request for reinstatement may be made when the student has completed a minimum of 12 additional semester hours and has met the satisfactory academic requirements.

Provisions for Transfer Students

Financial aid for students transferring from other institutions will be determined by their academic standing, which will be calculated on all hours they have attempted. Students with a minimum GPA below the policy, stated above, will be on financial aid probation provided

they were eligible for continuing aid at the institution from which they transferred.

If financial aid had been suspended at the previous institution, they must follow Southern College procedure for appeal and reinstatement of financial aid.

FINANCIAL AID APPLICATION PROCEDURES

To apply for all types of financial aid, the following documents must be submitted annually for the federal, state, and institutional aid programs:

1. The Family Financial Statement (FFS) of the American College Testing Program or the Financial Aid Form (FAF) of the College Scholarship Service.
2. The Southern College application for financial aid, Form B.
3. Southern College admissions application.
4. The financial aid transcript (required only of students who attended other colleges or universities before coming to Southern College).
5. Copies of parents' income tax return (exact signed copies of all schedules and W-2 forms sent to IRS).
6. Copies of student income tax return including W-2 forms.
7. Guaranteed Student Loan applications from home town lender. (Southern College has arranged for last resort lenders for students whose home town lenders do not participate in the GSL program or for any reason refuse to make the loan).

Applications are available in January of each year and may be obtained by contacting Southern College Financial Aid Office. Students are urged to complete applications as early as possible after the family income tax returns have been completed. Income tax returns only have to be *completed*, not necessarily mailed to IRS before submitting the financial aid application.

Financial Aid Award Procedures

An official offer of financial aid will be sent to each applicant. To confirm and reserve the funds offered, the student must return the signed acceptance of the offer within **ten days** of receipt.

Financial aid awards are made on a rolling basis, as long as funds are available, with the neediest students receiving priority of funds. The financial aid award package will usually consist of: 1) work, 2) loan, 3) grant or scholarship.

Disbursement of Financial Aid Funds

Financial aid awards are disbursed equally at the beginning of each semester. Students must sign vouchers, and other documents necessary to have funds released to statements, at the disbursement office in

Wright Hall. Funds cannot be credited to student statements until this procedure is followed.

Financial Aid Overawards

When financial aid recipients receive additional resources not included in the financial aid award letter, they *must* be reported to the office of Student Financial Aid. Federal Regulations prohibit "overawards," therefore, when total of all resources exceeds the allowable student budget, financial aid awards must be adjusted. When financial aid funds have already been credited to the student's statement, any refunds due or overawards will be charged to the student's account.

STUDENT FINANCIAL AID REFUND AND REPAYMENT POLICIES

Financial Aid Refund Policy

The refund policy for students withdrawing from classes is outlined on page 247.

Since financial aid is considered to be used first for direct educational costs (tuition, books, room, and board), when a student withdraws from classes and under the refund policy receives a refund of tuition and room rent, the refund will be used to reimburse the financial aid credited to the student account. The allocation of the refund will be applied as follows (according to the refund formula):

1. SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT
2. PERKINS LOAN (Formerly NDSL)
3. STAFFORD LOAN (Formerly GSL)
4. PARENT STUDENT LOAN/SUPPLEMENTAL LOANS FOR STUDENTS
5. PELL GRANT
6. STATE GRANT
7. INSTITUTIONAL SCHOLARSHIPS AND LOANS
8. PRIVATE SCHOLARSHIPS
9. PARENTS/STUDENT

Refund Formula:

$$\frac{\text{Total amount of Federal and State financial aid (excluding employment) awarded for period}}{\text{Total amount of all financial aid awarded for period (excluding employment)}}$$

Rationale for Allocation of Refund and Repayment Formula

According to the order of allocation:

1. Supplemental Educational Opportunity Grant — These funds are very limited and can be re-awarded to needy students who may have had to take two loans due to the lack of grant funds.
2. Perkins Loan — To reduce the amount of debt to the student; and the recovery of funds can be re-awarded to other needy students.

3. Stafford Loan — It is to the student's advantage to reduce the amount of debt that will have to be repaid.
4. Parent Loans/Supplemental Loans for Students — These loans are obtained generally to offset or reduce their expected contribution.
5. Pell Grants are from an entitlement program and cannot be re-awarded.
6. Recipients of State Grants are generally recipients of Pell Grants.
7. Institutional scholarships and loan funds are very limited, therefore these funds can be re-allocated to other students.
8. Private scholarships are usually based on achievement and not need.
9. Parents and students are primarily responsible for educational expenses.

Financial Aid Repayment Policy

There are specific repayment policies for students who withdraw and have received financial aid in excess of direct educational costs. An example would be the student who received a Stafford Loan, and did not use the full amount for educational costs. A student owing a repayment to any Federally funded student aid program *cannot* receive any type of Federal student aid for future enrollment periods until repayments have been made.

VETERANS

Southern College is approved for the training of veterans as an accredited training institution. Those who qualify for educational benefits should contact the nearest Veterans Administration office.

Veterans or other eligible persons are required to attend classes in order to be eligible for educational benefits. Southern College is required to report promptly to the V.A. the last day of attendance when an eligible student withdraws or stops attending classes regularly.

A recipient may not receive benefits for any course that does not fulfill requirements for his stated degree and major. Audited courses, non-credit courses (except for a required remedial course), and correspondence work cannot be certified.

TYPES OF FINANCIAL AID

Scholarships

General Institutional Scholarships

Southern College institutional scholarships are awarded from a variety of scholarship funds to students who have financial need, are achieving academically, and are working part time. These awards usually range from \$200 to \$1,000 per year depending upon the student's need and availability of funds.

The following scholarships are awarded to eligible students regardless of financial need:

ACADEMIC SCHOLARSHIPS are awarded to incoming freshmen who graduate with a 3.50 or higher GPA from academies or secondary schools, are recommended by their faculty, and enroll at Southern College for a minimum of twelve semester hours.

For those incoming freshmen students who have a high school GPA of 3.85 or above and an ACT composite score of 27 or above, a high academic scholarship of \$6,500 over four years is available. Two thousand dollars would be awarded the first year at SC and \$1,500 for each of the following three years. The student would have to maintain an SC GPA of 3.50 and carry not less than 14 semester hours of class work each semester enrolled.

LEADERSHIP SCHOLARSHIPS are awarded to incoming freshmen who have served as S.A. President, S.A. Vice-President, S.A. Spiritual Vice-President, Senior Class President, Yearbook Editor, School Paper Editor, and enroll at Southern College for a minimum of twelve semester hours.

NATIONAL ACADEMIC RECOGNITION AWARDS are awarded to finalists in the National Merit contest in the amount of \$1,300 and semi-finalists are awarded \$850. Students must enroll at Southern College for a minimum of twelve semester hours.

ACT SCHOLARSHIPS — Incoming freshmen with a composite score of 25-28 are eligible for a \$700 award if they maintain a college GPA of 3.00 each semester of the first year they are enrolled at Southern College. Incoming freshmen with a composite score of 29-36 are eligible for an \$850 award if they maintain a college GPA of 3.25 each semester of the first year they are enrolled at Southern College. Students must enroll at Southern College for a minimum of twelve semester hours.

SUMMER CAMP SCHOLARSHIPS — Students participating in conference-sponsored summer camp programs will receive credit from Southern College for 33.33 percent of the net amount received to the student's statement.

Grants

THE PELL GRANT PROGRAM is a federal program which provides grant assistance directly to eligible first-degree undergraduate students. A student's eligibility for a Pell Grant is based on a congressionally-approved formula which considers family financial circumstances.

SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT — Limited funds are available to students with exceptional financial need.

STATE STUDENT INCENTIVE GRANTS — These grants are made possible from federal and state funds to the residents of Alaska, Connecticut, Delaware, District of Columbia, Maine, Maryland, Massachusetts, New Jersey, Oklahoma, Pennsylvania, Rhode Island, Tennessee, Ver-

mont, Washington, and West Virginia. Check with your state grant agency for additional information.

Loans

PERKINS LOAN (formerly National Direct Student Loan) — Under this program, students can borrow money from the federal government, through the school. Repayment and five percent interest begin nine months after a student graduates, leaves school, or drops below half-time enrollment.

FEDERAL NURSING STUDENT LOANS are available to nursing students only. Repayment and five percent interest begin nine months after a student graduates, leaves school, or drops below half-time enrollment.

STAFFORD LOANS (Formerly Guaranteed Student Loans) are available through lending agencies in each of the states. A student may borrow from a bank, savings and loan association, credit union, or other lender, and the state agency will guarantee the loan.

Category of Borrower	Annual Loan Limits	Aggregate Loan Limits
First and Second Year	\$2,625	
Third Year or beyond	\$4,000	\$17,250

The federal government pays the interest on the loan while the student is in school. Repayment and eight percent interest begin six months after a student graduates, leaves school, or drops below half-time enrollment. For new borrowers who seek loans for periods of enrollment beginning on or after July 1, 1988, the interest rate is eight percent for the first four years of repayment and 10 percent after that.

PARENT LOANS (PLUS) — A parent or self-supporting student may borrow from a bank or other lender and a state or private non-profit agency will guarantee the loan. A parent may borrow \$4,000 per year to a limit of \$20,000.

PLUS and **SLS** borrowers generally must begin repaying both principal and interest within 60 days after the last loan disbursement. However, if a deferment applies (including a deferment for being in school) borrowers do not begin repaying any principal until the deferment ends.

Note: Deferments do not apply to interest, although the lender may let the interest accumulate until the deferment ends.

PLUS and **SLS** loans have variable interest rates, adjusted each year. For the 1988-89 award year, the interest rate was 10/45 percent. The interest rate for the 1989-90 award year will be determined in June 1989. The interest rate for each loan is shown on the promissory note, signed by the borrower when the loan is made.

Work

COLLEGE WORK-STUDY PROGRAM — Under the work-study program, the employer pays a small part of the student's wages, and the government pays the rest. Most work-study positions are on campus. Students can work part time while they are in school, and they can work full time during the summer and other vacation periods. The basic pay rate is usually the current minimum wage; this may vary depending on the skill and experience needed for the job.

OTHER GRANTS, LOANS, AND SCHOLARSHIPS

The following grants, loans, and scholarships are available to students meeting the above requirements or having exceptional academic achievement. Details concerning amounts and qualifications for recipients of these funds can be obtained from the Director of Student Finance.

George Alden Nursing Scholarship for nursing students from Massachusetts

Appalachian Nursing Scholarship for nursing students from the Appalachian Mountain region

Theresa Brickman Scholarship for office administration majors

Dora McClellan Brown Scholarship for theology majors

Burdick Scholarship for religion, behavioral science or science majors

Business Administration Scholarship for business majors

Caldwell Nursing Loan for nursing students planning to serve the Chattanooga community

Cartinhour Foundation Scholarship and Loan

Chatlos Foundation Scholarship for nursing students from Florida

Drs. Tony Y. T. and Delma A. Q. Chen Scholarship Endowment Fund

John Christensen Scholarship for chemistry majors

Penna S. S. Chong Memorial Scholarship for nursing students from Florida. (Preference for Far East resident students of Asiatic origin)

Alvin Christensen Memorial Loan for junior or senior biology or natural science majors

Otto Christensen Loan for potential Bible instructors or theology majors

Class of 1969 Loan for juniors and seniors

Frankie Collins Loan for ministerial students

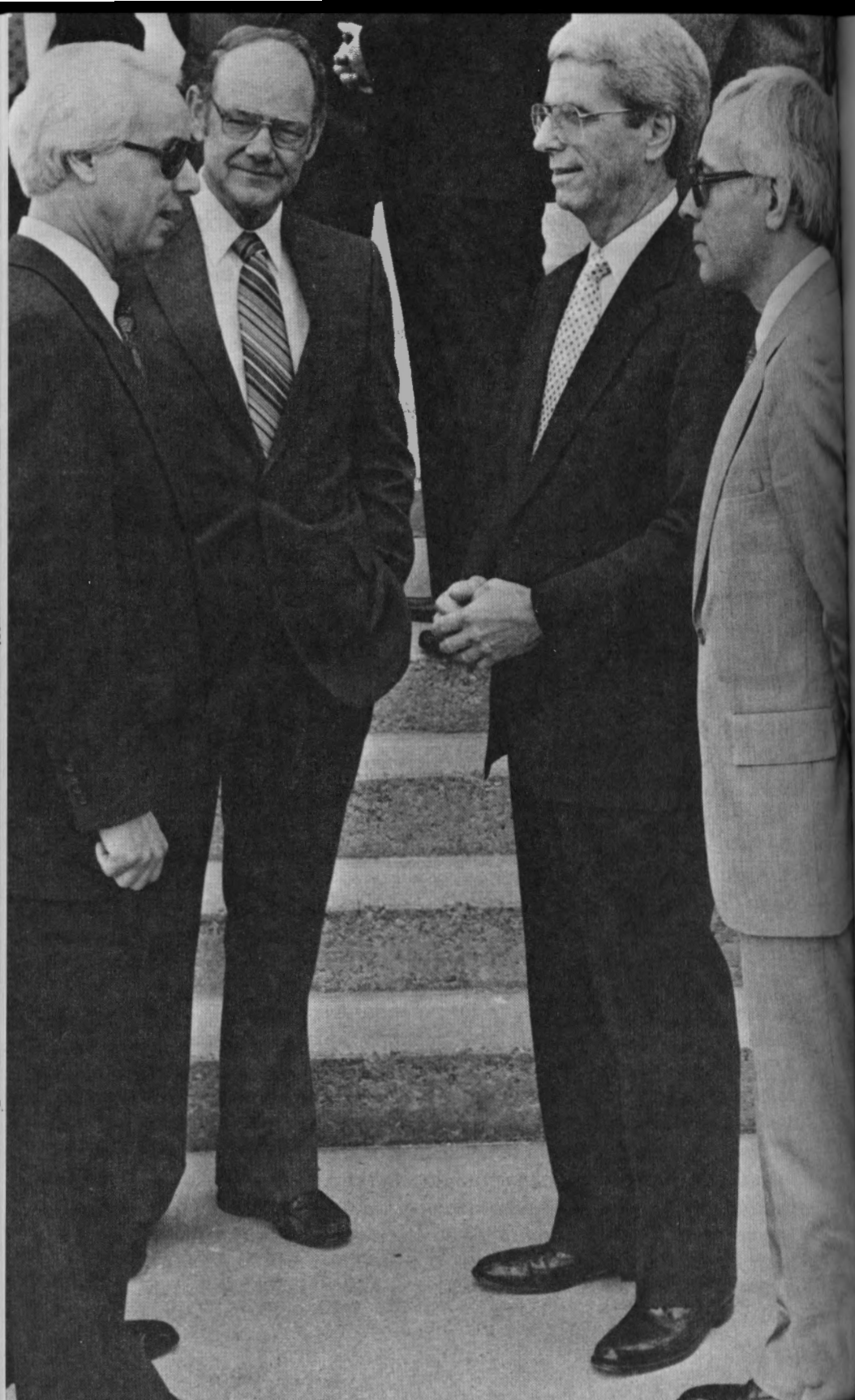
Conger Memorial Scholarship for education majors or minors

Edythe Stephenson Vocal Music Scholarship for junior/senior voice majors or minors

George B. and Olivia Dean Scholarship for education majors

Paul Fisher Scholarship

- Harry H. Goggans Scholarship*
- K. W. Grader Nursing Scholarship* for nursing students from Florida
- Daina Griffin Nursing Scholarship*
- Hearst Foundation Scholarship* for nursing students from the Appalachian region
- Henson Mathematics Scholarship* for math majors
- D. W. Hunter Scholarship* for theology students
- Louise Hurt Memorial Scholarship*
- William Iles Scholarship*
- Johnston Nursing Scholarship* for nursing students from North Carolina
- Jonathan Lincoln Art Scholarship* for art majors or minors
- Irad C. Levering Loan* for elementary and secondary education majors
- Luddington Memorial Scholarship*
- Nellie Henderson Maddox Scholarship* for music major or minor with keyboard emphasis
- Manor Care Scholarship* for office administration majors
- O. D. and Anna Ruth McKee Scholarship*
- Mitzelfelt Band Scholarship* for members of the band
- Dorothy and Harold Moody Scholarship* for junior and senior history majors
- Carolyn Niemeyer Scholarship* for nursing majors
- Nursing Magazine Scholarship* for nursing majors
- Nutrix-Primus Nursing Scholarship* for nursing majors
- Reile-McAlexander Memorial Loan* for nursing students
- A. F. Ruf Family Scholarship* for English or history majors
- So-Ju-Conian Anonymous Birthday Scholarship* for decedents of Southern Junior College students
- Linda Beardsley Stephens Memorial Loan* for nursing students
- Daniel W. Stephenson Graphic Arts Scholarship*
- Sudduth Memorial Scholarship* for potential teachers
- Ambrose Suhrie Scholarship* for elementary education majors
- Anton Julius Swenson Loan*
- Tait Family Scholarship* for nursing, business or chemistry majors
- Mollie Tanzer Scholarship*
- William Taylor Scholarship* for students from Southeast Asia College
- John C. and Sue Dale Thompson Scholarship*
- Sanford and Martha Ulmer Scholarship*
- Wayne VandeVere Scholarship* for business and accounting majors
- Scott Jeffery Yankelevitz Memorial Scholarship*



BOARD AND FACULTY

BOARD OF TRUSTEES

* A. C. McClure, *Chairman*

E. A. Anderson

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Robert Murphy

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Earl Richards

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Clinton Shankel

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Bonnie Wilkens

Ben Wygal

* Members of the Executive Board

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COLLEGE ADMINISTRATION

PRESIDENT

Donald R. Sahly, Ed.D. (1986) President

Jeanne Davis (1970) President's Secretary

ACADEMIC ADMINISTRATION

Floyd Greenleaf, Ph.D. (1966) Senior Vice President for
Academic Administration

Records

Mary Elam, M.A. (1965) Director of Records

College Administration

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Library

- Peggy Bennett, M.S.L.S. (1971) Director of Libraries
Loranne Grace, M.L.S. (1970) Associate Librarian
Katy Hunt, M.S.L.S. (1976) Director, ANGEL Program
Patricia Morrison, M.L.S. (1981) Assistant Librarian
Marianne Wooley, M.S.L.S. (1966) Assistant Librarian
(Orlando Campus)

Instructional Media

- Frank Di Memmo, M.S. (1980) Director, Instructional Media

ADMISSIONS, PUBLIC RELATIONS, AND ALUMNI

- Ronald Barrow, Ph.D. (1979) Vice President for
Admissions and College Relations
Doug Martin, B.A. (1988) Associate Director of Recruitment
Merlin Wittenberg, M.Ed. (1984) Associate Director of
Recruitment
Dean Kinsey, M.Ed. (1983) Associate Vice President for
Alumni and Public Relations

Public Relations

- Doris Burdick, B.A. (1983) Director, Public Relations

Student Finance and Accounts

- Ken Norton, B.S. (1988) Director, Student Finance

BUSINESS SERVICES

- Dale J. Bidwell, B.S. (1989) Senior Vice President for Finance
Helen Durichek, B.A. (1986) Assistant Vice President for
Finance

Financial and Accounting Services

- Robert Merchant, M.B.A., C.P.A. (1961) Treasurer
Louesa Peters, B.A. (1964) . Chief Accountant, Assistant Treasurer

Commercial Auxiliaries

- Dale Collins, B.A. (1988) Associate Manager, The College Press
Roy Dingle, A.S. (1974) Bakery Manager, Village Market
Allen Olsen (1984) General Manager, The College Press
Don Spears (1984) Manager, Supreme Broom Company
Bruce Vogt, B.S. (1986) ... Production Manager, The College Press
Charles Whidden (1984) Manager, Village Market
Rita Wohlers (1987) Manager, Campus Shop

Computer Services

- John Beckett, B.A. (1975) Director, Computer Services
Judy DeLay, B.A. (1982) Analyst/Programmer
William Estep (1979) Computer Operations Manager

Service Auxiliaries

- Charles Lucas (1984) Director, Physical Plant
 Earl Evans, B.S. (1977) Director, Food Service
 C. R. Lacey (1970) Director, Grounds
 William McKinney (1974) Director, Motor Pool
 Clarence McCandless (1979) Director, Custodial Services

WSMC FM90.5

- Doug Walter, B.A. (1984) General Manager, WSMC FM90.5
 Gerald Peel, B.A. (1985) Station Relations Director, WSMC

STUDENT SERVICES

- William Wohlers, Ph.D. (1973) . Vice President for Student Services

Residence Halls

- Stan Hobbs, B.A. (1985) Associate Dean of Men
 Don Mathis, B.S. (1988) Associate Dean of Men
 Ron Qualley, B.S. (1980) Dean of Men
 Sharon Engel (1986) Dean of Women
 Kassandra Krause, A.S. (1987) Associate Dean of Women
 Lydia Rose, B.S. (1987) Associate Dean of Women

Counseling

- K. R. Davis, M.A. (1970) Director of Counseling and Testing
 Rhea Rolfe, M.A. (1972) Counselor

Health Service

- Eleanor Hanson, R.N. (1966) Director, Health Service
 Waldemar Kutzner, M.D. (1974) College Physician

Security

- Clifford Myers, Sr. (1968) Director, Security

DEVELOPMENT

- Jack McClarty, Ed.D. (1980) Vice President for Development
 William H. Taylor, M.A. (1958) ... Director, Endowment Campaign

COLLEGE PASTORS

- Gordon Bietz, D.Min. (1981) Pastor
 James Herman, B.A. (1976) College Chaplain
 Ken Rogers, B.A. (1986) Youth Pastor
 Rolland Ruf, B.A. (1969) Associate College Pastor
 Ed Wright, M.Div. (1985) Family Ministries Pastor

FACULTY EMERITI

Dorothy Evans Ackerman, M.Music, *Associate Professor Emerita of Music*

B.A., Atlantic Union College; M.Mus., University of Chattanooga.

Theresa Rose Brickman, M.Ed., *Associate Professor Emerita of Secretarial Science*

B.A., Union College; M.Ed., University of Oklahoma.

Thelma Cushman, M.A., *Associate Professor Emerita of Home Economics*

B.A., Pacific Union College; M.A., Pacific Union College; M.A., Michigan State University.

Olivia Brickman Dean, M.Ed., *Associate Professor Emerita of Education*

B.A., Union College; M.Ed., University of Oklahoma.

Charles Fleming, Jr., M.B.A., *Business Manager Emeritus*

B.A., Emmanuel Missionary College; M.B.A., Northwestern University.

R. E. Francis, B.D., *Professor Emeritus of Religion*

B.A., Columbia Union College; M.A., Andrews University; B.D., Andrews University.

Cyril F. W. Futcher, Ed.D., *Vice-President Emeritus of Academic Administration*

B.A., Andrews University; Diploma in Theology, Newbold College; Diploma of Education, University of Western Australia; M.Ed., Maryland University; Ed.D., Maryland University.

K. M. Kennedy, Ed.D., *Professor Emeritus of Education*

B.A., Valparaiso University; M.Ed., University of Chattanooga; Ed.D., University of Tennessee.

H. H. Kuhlman, Ph.D., *Professor Emeritus of Biology*

B.A., Emmanuel Missionary College; M.A., George Peabody College for Teachers; Ph.D., University of Tennessee.

Evelyn Lindberg, M.A., *Associate Professor Emerita of English*

B.A., Willamette University; M.A., Texas Christian University.

Drew Turlington, M.S., *Associate Professor Emeritus of Industrial Education*

B.S., Southern Missionary College; M.S., University of Tennessee.

FACULTY DIRECTORY

Kimberly Wygal Arellano, M.Acc., *Assistant Professor of Business*

B.S., Southern College of Seventh-day Adventists; M.Acc., University of Oklahoma. (1987)

J. Bruce Ashton, D.M.A., *Professor of Music*
 B.Mus., Capital University; M.Mus., American Conservatory of
 Music, D.M.A., University of Cincinnati. (1968)

Wiley Austin, M.S., *Associate Professor of Chemistry*
 B.S., Pacific Union College; M.S., Stanford University. (1988)

Ben Bandiola, Ph.D., *Professor of Education and Psychology*
 B.S.E., M.A., Philippine Union College; Ph.D., University of Iowa.
 (1984)

†Ronald Barrow, Ph.D., *Vice President for Admissions and College Relations*
 B.A., Columbia Union College; M.A., Loma Linda University; Ph.D.,
 Walden University. (1979)

John Beckett, B.A., *Director of Computer Services, Instructor of Computer Science*
 B.A., Southern Missionary College. (1974)

Douglas Bennett, Ph.D., *Ellen G. White Professor of Religion*
 B.A., Southern Missionary College; M.A., Andrews University;
 B.D., Andrews University; Ph.D., Bowling Green State University.
 (1961)

Peggy Bennett, M.S.L.S., *Director of Libraries, Associate Professor of Library Science*
 B.S., Southern Missionary College; M.S.L.S., Florida State University. (1971)

†Dale J. Bidwell, B.S., *Senior Vice President for Finance*
 B.S., Columbia Union College. (1989)

Jack Blanco, Th.D., *Professor of Religion*
 B.A., Union College; M.A., SDA Theological Seminary; B.D., SDA
 Theological Seminary; M.Th., Princeton Theological Seminary;
 Th.D., University of South Africa. (1983)

Ann Clark, Ph.D., *Associate Professor of English*
 B.A., Southern Missionary College; M.A.T., University of Tennessee
 at Chattanooga; Ph.D., University of Tennessee, Knoxville. (1965)

Gerald Colvin, Ph.D., Ed.D., *Professor of Education and Psychology*
 B.A., Union College; M.Ed., Ed.D., University of Arkansas; Ph.D.,
 University of Georgia. (1972, 1984)

Joyce Cotham, M.B.Ed., *Associate Professor of Office Administration*
 B.S., Southern Missionary College; M.B.Ed., Middle Tennessee
 State University. (1971)

Dates in parentheses indicate the beginning year of employment at Southern
 College.

† Administration

Faculty Directory

270

- †Kenneth R. Davis, M.A., *Director of Counseling and Testing, Assistant Professor of Religion*
B.A., Emmanuel Missionary College; M.A., Andrews University; M.A., Boston University. (1970)
- Don Dick, Ph.D., *Professor of Speech Communication*
B.A., Union College; M.A., University of Nebraska; Ph.D., Michigan State University. (1968)
- Frank Di Memmo, M.S., *Director of Instructional Media*
B.S., Columbia Union College; M.S., Shippensburg University. (1980)
- Roy Dingle, A.S., *Instructor of Home Economics; Bakery Manager, Village Market*
A.S., Southern Missionary College. (1974)
- John Durichek, M.A., *Associate Professor of Technology*
B.S., Southern Missionary College; M.S., George Peabody College for Teachers. (1969)
- Richard Erickson, M.B.A., *Assistant Professor of Business*
B.S., M.B.A., Austin Peay State University. (1984)
- Earl Evans, B.S., *Director of Food Services; Instructor of Home Economics*
B.S., Andrews University. (1977)
- Ted Evans, M.Ed., *Associate Professor of Physical Education*
B.S., Andrews University; M.Ed., University of Tennessee at Chattanooga. (1974)
- Diane Fletcher, Ed.D., *Associate Professor of Home Economics*
B.A., Avondale College; M.A., Pacific Union College; Ed.D., Texas Woman's University. (1985)
- Flora Flood, M.S.N., *Assistant Professor of Nursing*
B.S., Columbia Union College; M.S.N., Medical College of Georgia. (1983)
- Sandra L. Fryling, M.A., *Assistant Professor of Music*
B.S., Southern College of Seventh-day Adventists; M.A., New England Conservatory of Music. (1989)
- Robert Garren, M.F.A., *Professor of Art*
B.S., Atlantic Union College; M.F.A., Rochester Institute of Technology. (1968)
- Philip G. Garver, Ed.D., *Professor of Physical Education*
B.S., Southern Missionary College; M.S., Eastern Michigan University; Ed.D., University of Tennessee, Knoxville. (1976)

Dates in parentheses indicate the beginning year of employment at Southern College.

† Administration

Orlo Gilbert, M.Mus. Ed., *Professor of Music*
 B.M.E., La Sierra College; M.Mus.Ed., Madison State Teachers College. (1967)

Judith Glass, M.Mus., *Associate Professor of Music*
 B.Mus., University of Texas at Austin; M.Mus., University of Texas at Austin. (1975)

Loranne Grace, M.L.S., *Associate Professor of Library Science*
 B.S., Walla Walla College; M.L.S., University of Washington. (1970)

Jon Green, Ph.D., *Professor of Education*
 B.A., La Sierra College; M.S., Loma Linda University; M.A., Andrews University; Ph.D., Georgia State University. (1989)

†Floyd Greenleaf, Ph.D., *Vice President for Academic Administration*
 B.A., Southern Missionary College; M.A., George Peabody College for Teachers; Ph.D., University of Tennessee. (1966)

Edgar O. Grundset, M.A., *Associate Professor of Biology*
 B.A., Emmanuel Missionary College; M.A., Walla Walla College. (1957)

Leona Gulley, M.H.Sc., *Associate Professor of Nursing*
 B.S., Columbia Union College; M.A., Philippine Union College Seminary, M.H.Sc., Philippine Union College. (1978)

Norman Gulley, Ph.D., *Professor of Religion*
 Diploma in Theology, Newbold College; B.A., Southern Missionary College; M.A., Andrews University; B.D., Andrews University; Ph.D., Edinburgh University. (1978)

David W. Haley, B.S., *Assistant Professor of Business*
 B.S., Southern College of Seventh-day Adventists. (1989)

Richard Halterman, M.S., *Assistant Professor of Computer Science*
 B.S., Florida Southern College; M.S., Florida Atlantic University. (1987)

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

Lawrence E. Hanson, Ph.D., *Professor of Mathematics*
 B.A., California State University; M.A., University of California; Ph.D., Florida State University. (1966)

Carole Haynes, M.Ed., *Assistant Professor of Education*
 B.S., Southern Missionary College; M.Ed., University of Tennessee at Chattanooga. (1982)

Dates in parentheses indicate the beginning year of employment at Southern College.

† Administration

Faculty Directory

272

- Ray Hefferlin, Ph.D., *Professor for International Research in Physics*
B.A., Pacific Union College; Ph.D., California Institute of Technology. (1955)
- Dorothy Hooper, M.S., *Associate Professor of Nursing*
B.S., Southern Missionary College; M.S., Loma Linda University. (1975)
- Duane F. Houck, Ph.D., *Professor of Biology*
B.A., Emmanuel Missionary College; M.A., University of North Carolina; Ph.D., Iowa State University. (1973)
- Shirley Howard, M.S.N., *Associate Professor of Nursing*
B.S., Walla Walla College; M.S.N., University of Tennessee, Knoxville. (1974)
- Francis Hummer, *Instructor of Technology* (1979)
- Bonnie Hunt, M.S.N., *Associate Professor of Nursing*
B.S., Loma Linda University; M.S.N., University of Tennessee, Knoxville. (1977)
- Katy Hunt, M.S.L.S., *Director, ANGEL Program*
B.S., Southern Missionary College; M.S.L.S., University of Tennessee, Knoxville. (1976)
- Bradley G. Hyde, M.S.C.S., *Assistant Professor of Computer Science*
B.A., Southern Missionary College; M.S.C.S., Maryland University. (1988)
- Gordon Hyde, Ph.D., *Professor of Religion*
B.A., Andrews University; M.A., University of Wisconsin; Ph.D., Michigan State University. (1982)
- Steven Jaecks, M.S., *Assistant Professor of Physical Education*
B.A., Loma Linda University; M.S., University of Tennessee at Chattanooga. (1980)
- Beth Jedamski, M.S., *Assistant Professor of Nursing*
B.S., Southern Missionary College; M.S.N., Georgia State University. (1983)
- John Keyes, Ed.S., *Associate Professor of English*
B.A., Asbury College; M.A., Central Michigan University; M.A.T., Andrews University; M.L.S., Vanderbilt University; Ed.S., George Peabody College for Teachers. (1987)
- †Dean Kinsey, M.Ed., *Associate Vice President for Alumni and Public Relations*
B.A., Southern Missionary College; M.Ed., Boston University. (1986)

Dates in parentheses indicate the beginning year of employment at Southern College.

† Administration

Henry Kuhlman, Ph.D., *Professor of Physics*
 B.A., Emmanuel Missionary College; M.A., Western Michigan University; Ph.D., Purdue University. (1968)

Edward L. Lamb, M.S.S.W., A.C.S.W., *Associate Professor of Social Work and Family Studies*
 B.S., Union College; M.S.S.W., University of Tennessee, Knoxville. (1972)

Katie A. Lamb, M.S.N., *Associate Professor of Nursing*
 B.S., Union College; M.S.N., University of Central Arkansas. (1972)

Merritt MacLafferty, M.A., *Associate Professor of Computer Science*
 B.A., Union College; M.A., Pacific Union College. (1980)

Terry Martin, M.S., *Assistant Professor of Nursing*
 B.S., Southern College of Seventh-day Adventists; M.S., Andrews University. (1988)

Leon I. Mashchak, Ph.D., *Associate Professor of Religion*
 B.A., Columbia Union College; M.A., Andrews University; Ph.D., California Graduate School of Theology. (1987)

Ben McArthur, Ph.D., *Professor of History*
 B.A., Andrews University; M.A., University of Chicago; Ph.D., University of Chicago. (1979)

Caroline McArthur, M.S., *Associate Professor of Nursing*
 B.S., University of Mississippi; M.S., Emory University. (1979)

†Jack McClarty, Ed.D., *Vice President for Development*
 B.M.Ed., University of Montana; M.M.Ed., Andrews University; Ed.D., University of Montana. (1972)

Wilma McClarty, Ed.D., *Professor of English*
 B.A., Andrews University; M.A., Andrews University; Ed.D., University of Montana. (1972)

†Robert W. Merchant, M.B.A., C.P.A., *Treasurer*
 B.A., Emmanuel Missionary College; M.B.A., University of Arkansas. (1961)

*Robert Moore, M.S., *Associate Professor of Mathematics*
 B.A., Southern Missionary College; M.S., University of North Carolina. (1979)

Douglas F. Morgan, M.A., *Assistant Professor of History*
 B.A., Union College; M.A., University of Chicago. (1989)

Derek Morris, D.Min., *Associate Professor of Religion*
 B.A., Columbia Union College; M.Div., Andrews University; D.Min., Andrews University. (1987)

Dates in parentheses indicate the beginning year of employment at Southern College.

* Study leave

† Administration

Faculty Directory

274

- Patricia C. Morrison, M.L.S., *Assistant Professor of Library Science*
B.S., East Carolina University; M.L.S., Vanderbilt University. (1981)
- Laura Nyirady, M.S.N., *Associate Professor of Nursing*
B.S., Loma Linda University; M.S.N., Boston University. (1986)
- Stephen A. Nyirady, Ph.D., *Professor of Biology*
B.A., Atlantic Union College; M.S., Loma Linda University; Ph.D.,
Loma Linda University. (1986)
- Georgia O'Brien, B.S., *Instructor of Nursing*
B.S., Southern College of Seventh-day Adventists. (1988)
- Helmut K. Ott, Ed.D., *Professor of Modern Languages*
B.A., Loma Linda College of Arts and Sciences; M.A., Inter-American
University; M.A., Andrews University; Ed.D., Andrews University.
(1971)
- *Mark Peach, M.A., *Assistant Professor of History*
B.A., Walla Walla College; M.A., Washington State University. (1987)
- Dennis Pettibone, Ph.D., *Assistant Professor of History*
B.A., La Sierra College; M.A., Loma Linda University; Ph.D., University
of California, Riverside. (1988)
- Marsha Rauch, M.S.N., *Associate Professor of Nursing*
B.S., Columbia Union College; M.S.N., Catholic University of
America. (1986)
- Evonne Richards, Ed.D., *Associate Professor of Office Administration*
B.S., Pacific Union College; M.A., Loma Linda University; Ed.D.,
University of Tennessee, Knoxville. (1983)
- Joi Richards, B.S., *Instructor of Physical Education*
B.S., Southern College of Seventh-day Adventists. (1989)
- Arthur Richert, Ph.D., *Professor of Mathematics*
B.A., Southern Missionary College; M.A. and Ph.D., University of
Texas. (1971)
- Marvin L. Robertson, Ph.D., *Professor of Music*
B.Mus., Walla Walla College; M.A., University of Northern Colorado;
Ph.D., Florida State University. (1966)
- Cyril Roe, Ed.D., *Professor of Education*
B.A., Pacific Union College; M.A., Pacific Union College; Ed.D.,
University of the Pacific. (1976)
- Cecil Rolfe, Ph.D., *Professor of Business Administration*
B.A., Columbia Union College; M.B.A., University of Maryland;
Ph.D., University of Maryland. (1964)

Dates in parentheses indicate the beginning year of employment at Southern
College.

* Study leave

- Daniel Rozell, M.A., *Associate Professor of Business Administration*
B.S., Southern Missionary College; M.A., Central Michigan University. (1978)
- †Donald R. Sahly, Ed.D., *President*
B.S., Andrews University; M.A., Andrews University; Ed.D., University of the Pacific. (1986)
- Helen Sauls, M.A., *Associate Professor of Education*
B.S., Southern Missionary College; M.A., University of Iowa. (1989)
- Lynn Sauls, Ph.D., *Professor of Journalism and English*
B.S., Southern Missionary College; M.A., Peabody College of Vanderbilt University; Ph.D., University of Iowa. (1989)
- Lola Scoggins, M.P.H., *Assistant Professor of Nursing*
B.S.N., Columbia Union College; M.P.H., Loma Linda University. (1988)
- Patricia Silver, M.A., *Associate Professor of Music*
B.S.C., Madison College; M.A., George Peabody. (1982)
- David Smith, M.A., *Associate Professor of English*
B.A., Andrews University; M.A., Andrews University. (1981)
- Peggy Smith, B.S., *Instructor of Office Administration*
B.S. Southern Missionary College. (1988)
- Kenneth Spears, M.B.A., *Vice President for Finance*
B.S., Southern Missionary College; M.B.A., Middle Tennessee State University. (1963)
- Ronald Springett, Ph.D., *Professor of Religion*
B.A., Columbia Union College; M.A. and B.D., Andrews University; Ph.D., University of Manchester. (1969)
- Jeanette Stepanke, Ed.D., *Professor of Education*
B.S., Andrews University; M.A., Ohio State University; Ed.D., University of Tennessee, Knoxville. (1979)
- Elvie Swinson, M.S., *Associate Professor of Nursing*
B.S.N.E., Columbia Union College; M.S., Loma Linda University. (1973)
- †William H. Taylor, M.A., *Director, Endowment Campaign*
B.A., Union College; M.A., University of Nebraska. (1958)
- Mitchell Thiel, Ph.D., *Professor of Chemistry*
B.A., Union College; M.S., University of Maryland; Ph.D., University of Maryland. (1966)

Dates in parentheses indicate the beginning year of employment at Southern College.

† Administration

Faculty Committees

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- Cheryl K. Thompson, M.S.N., *Assistant Professor of Nursing*
B.S., Southern Missionary College; M.S.N., University of Florida.
(1982)
- Wayne E. VandeVere, Ph.D., C.P.A., *Ruth McKee Professor of Entrepreneurship and Business Ethics*
B.A., Andrews University; M.B.A., University of Michigan; Ph.D., Michigan State University. (1956)
- Dale Walters, M.S., *Assistant Professor of Technology*
B.S., Southern Missionary College; M.S., East Tennessee University.
(1988)
- Steven E. Warren, Ph.D., *Associate Professor of Chemistry*
B.S., Andrews University; Ph.D., Arizona State University. (1982)
- Erma Webb, M.S., *Associate Professor of Nursing*
B.S., Union College; M.S., Loma Linda University. (1976)
- Larry Williams, M.S.W., *Associate Professor of Social Work and Family Studies*
B.S., Southern Missionary College; M.S.W., University of Georgia.
(1983)
- †William Wohlers, Ph.D., *Vice President for Student Services*
B.A., Walla Walla College; M.A., Andrews University; Ph.D., University of Nebraska. (1973)
- Marianne Wooley, M.S.L.S., *Assistant Professor of Library Science*
B.S., Andrews University; M.S.L.S., University of Southern California. (1966)
- Marcie Woolsey, Ph.D., *Associate Professor of Biology*
B.S., Southern Missionary College; M.A., Loma Linda University; Ph.D., University of California, Davis. (1981)
- Jon D. Worth, M.S., *Assistant Professor of Mathematics*
B.S., Walla Walla College; M.S., Washington State University. (1989)

PROPOSED FACULTY COMMITTEES FOR THE 1989-90 SCHOOL YEAR

ACADEMIC AFFAIRS: Floyd Greenleaf, *Chairman*, Ron Barrow, Peggy Bennett, Jack Blanco, Gerald Colvin, Frank Di Memmo, John Durichek, Mary Elam, Diane Fletcher, Robert Garren, Phil Garver, Larry Hanson, Ray Hefferlin, Bradley Hyde, Ed Lamb, Katie Lamb, Ben McArthur, Stephen Nyirady, Marvin Robertson, Lynn Sauls, David Smith, Wayne VandeVere, and Steven Warren.

Dates in parentheses indicate the beginning year of employment at Southern College.

† Administration

ABSENCE COMMITTEE: Dorothy Hooper, *Chairman*, Ann Clark, Rick Halterman, Kassy Krause, Don Mathis, and Becky Rolfe.

ADMISSIONS COMMITTEE: Ron Barrow, *Chairman*, Joyce Cotham, Sharon Engel, Floyd Greenleaf, Ron Qualley, Elvie Swinson, and William Wohlers.

ADVISEMENT COMMITTEE: Mary Elam, *Chairman*, Ben Bandiola, Ron Barrow, K. R. Davis, Floyd Greenleaf, Carole Haynes, Merritt MacLafferty, Evonne Richards, and Larry Williams.

COMPUTER SERVICES COMMITTEE: Dale Bidwell, *Chairman*, Mary Elam, Richard Erickson, Floyd Greenleaf, Bradley Hyde, Henry Kuhlman, Ken Norton, Louesa Peters, Larry Williams, and one student. John Beckett serves as consultant.

FACULTY AFFAIRS COMMITTEE: Larry Hanson, *Chairman*, Ron Barrow, Jan Haluska, Steve Jaecks, Katie Lamb, Stephen Nyirady, and Wayne VandeVere.

FINANCIAL ADVISORY COMMITTEE: Dale Bidwell, *Chairman*, Richard Erickson, Earl Evans, Ed Lamb, and Allen Olsen.

GENERAL EDUCATION COMMITTEE: Gerald Colvin, *Chairman*, Ben McArthur (Ch. Honors Committee), Dave Smith (Ch. Writing Committee), Beth Jedamski, Dan Rozell, Ron Springett, and Mitchell Thiel.

WRITING SUBCOMMITTEE: Dave Smith, *Chairman*, Bruce Ashton, Douglas Bennett, Ray Hefferlin, Duane Houck, Pat Morrison, and Lynn Sauls.

HONORS COMMITTEE: Ben McArthur, *Chairman*, Floyd Greenleaf (ex officio), Wilma McClarty, Helmut Ott, Art Richert, Cecil Rolfe, and Marcie Woolsey.

LOANS AND SCHOLARSHIP COMMITTEE: Ken Norton, *Chairman*, Ron Barrow, Sharon Engel, Shirley Howard, Jack McClarty, Ron Qualley, William Wohlers (ex officio), and two students.

INSTRUCTIONAL RESOURCES COMMITTEE: John Keyes, *Chairman*, Peggy Bennett (Library and Academic Affairs), Don Dick, Frank Di Memmo (Instructional Media), Loranne Grace (Library), and Steve Warren.

RECRUITMENT / RETENTION COMMITTEE: Ron Barrow, *Chairman*, K. R. Davis, John Durichek, Ted Evans, Carole Haynes, Dean of Men, Dean of Women, and one student.

SOCIAL / RECREATIONAL COMMITTEE: Jeanne Davis, *Chairman*, Earl Evans, Steve Jaecks, Laura Nyirady, Georgia O'Brien, Cherie Smith, and Peggy Smith.

TEACHER EDUCATIONAL COUNCIL COMMITTEE: (All ex officio) Gerald Colvin, *Chairman*, Ben Bandiola, Hamlet Canosa, Joyce Cotham, John Durichek, Diane Fletcher, Robert Garren, Phil Garver, Floyd Greenleaf, Jan Haluska, Larry Hanson, Carole Haynes, Leon Mashchak, Helmut Ott, Dennis Pettibone, Marvin Robertson, Cyril Roe, Jeanette Stepanske, Alton Whidden, William Wohlers, and Marcie Woolsey.

STUDENT SERVICES COMMITTEE: William Wohlers, *Chairman*, Kim Arellano, Don Dick, Sharon Engel, Judy Glass, Edgar Grundset, Jim Herman, Ken Norton, Ron Qualley, Pat Silver, and three students.

Faculty Committees

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SUBCOMMITTEES UNDER STUDENT SERVICES:

ARTIST ADVENTURE/PROGRAMS: William Wohlbers, *Chairman*, Doris Burdick, Frank Di Memmo, Earl Evans, Orlo Gilbert, E. O. Grundset, Stan Hobbs, Kassy Krause, Steve Jaecks, Jack McClarty, Mark Peach, and four students.

DISCIPLINE POOL SUBCOMMITTEE: Judy Glass, Leona Gulley, Beth Jedamski, Callie McArthur, Dennis Pettibone, and Marcie Woolsey.

FILMS SUBCOMMITTEE: Don Dick, *Chairman*, Earl Evans, Lorraine Grace, Norman Gulley, Callie McArthur, Robert Merchant, William Wohlbers (ex officio), and two students.

RELIGIOUS LIFE SUBCOMMITTEE: Jim Herman, *Chairman*, Phil Garver, Leona Gulley, Stan Hobbs, Derek Morris, Lydia Rose, and four students.

SCREENING SUBCOMMITTEE: Pat Silver, *Chairman*, Diane Fletcher, Kassy Krause, Terry Martin, Don Mathis, Joi Richards, Lola Scoggins, William Wohlbers (ex officio), and two students.

STUDENT PERSONNEL COMMITTEE: William Wohlbers, *Chairman*, K. R. Davis, Sharon Engel, Earl Evans, Eleanor Hanson, James Herman, Stan Hobbs, Kassy Krause, Don Mathis, Cliff Myers, Ron Qualley, Becky Rolfe, and Lydia Rose.

ADMINISTRATIVE COUNCIL: Don Sahly, *Chairman*, Ron Barrow, Dale Bidwell, Doris Burdick, Helen Durichek, Mary Elam, Floyd Greenleaf, Dean Kinsey, Jack McClarty, Robert Merchant, Ken Norton, William Wohlbers, and two teaching faculty members.

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JULY							AUGUST							SEPTEMBER							
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1990

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1989-90 ACADEMIC CALENDAR

	1989 Summer Sessions*			
	1st	2nd	3rd	4th
Registration	May 8	June 5	July 3	July 30
Freshmen Orientation				July 30
Classes begin	May 8	June 5	July 3	July 31
Late registration fee	May 9	June 6	July 5	Aug. 1
Last day to add course/fee for class change	May 10	June 7	July 6	Aug. 2
Independence Day Observed			July 4	
Last day to drop and automatically receive a "W"	May 19	June 16	July 14	Aug. 11
All withdrawals after this date receive "F"	May 26	June 23	July 21	Aug. 18
Classes end	June 2	June 30	July 28	Aug. 25

* The Southern College summer term consists of four 4-week sessions. Students in attendance during the 1988-89 school year may register at any time during the week immediately preceding the session.

	1st Semester 1989-90	2nd Semester 1989-90
Faculty Colloquium	Aug. 18-20	
ACT and CLEP Exams	Aug. 25, 27	
Registration by appointment	Aug. 28, 29	Jan. 8
Classes begin	Aug. 30	Jan. 9
Late registration fee	Aug. 30	Jan. 9
Fee for class change	Sept. 6	Jan. 16
Last day to add course	Sept. 12	Jan. 22
Senior Class organization		Jan. 16
Mid-term ends	Oct. 19	Mar. 1
Mid-semester vacation	Oct. 20-22	Mar. 2-11
Alumni Homecoming	Oct. 27-29	
Last day to drop and automatically receive "F"		Mar. 16
Pre-Registration/Act		Apr. 9-30
Thanksgiving Vaca		
Senior deadline for correspondence/		
All withdrawals after this date receive "F"	Dec. 8	Apr. 13
Col		Apr. 8, 9
Sen	Dec. 18-21	Apr. 30 - May 3
Cor		May 6
Chr	Dec. 22 - Jan. 7	

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