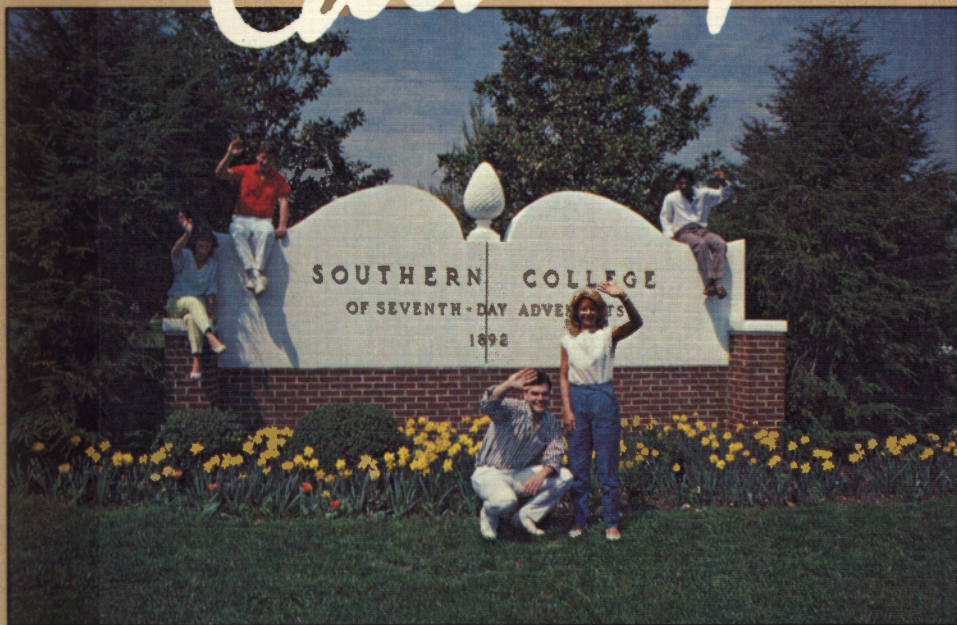


1986-87

SDA
COLLECTION

Catalog



SOUTHERN COLLEGE
OF SEVENTH-DAY ADVENTISTS

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SDA COLLECTION



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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.

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Southern College of SDA
Collegedale, TN 37315

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DEDICATION — MARY ELIZABETH ELAM

As a college student on this campus Mary Elam studied the CATALOG and charted her course. For the past twenty years Miss Elam has helped chart the courses for thousands of others. A 1951 English major who graduated with honors, she returned to Collegedale in 1965 as Assistant Director for Admissions and Records.

Now as the Director of Records, Miss Elam continues to exercise attention to details. It is her carefulness that helps make this academic guidebook what it is. She pays even greater attention to people. It is Miss Elam's caring that helps make Southern College what it is.

It is to you, Miss Elam, that we dedicate this 1986-1987 edition of the CATALOG.



WRIGHT HALL
ADMINISTRATION

THIS IS SOUTHERN COLLEGE

Southern College 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.

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

This Is Southern College

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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 Collegedale campus is nestled in a valley eighteen miles northeast of Chattanooga located on over one thousand acres of school property. The quietness and beauty of the peaceful surroundings are in keeping with the college's educational philosophy.

The Orlando Center at the Florida Hospital Medical Center provides additional clinical facilities for the associate degree program of the Division of Nursing.

ACCREDITATION AND MEMBERSHIPS

Southern College is accredited by the Southern Association of Col-

leges 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 of 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 Bachelor of Science degree in Education is accredited by the Tennessee State Board of Education.

The college is approved by the Tennessee State Board of Education for the preparation of secondary, elementary, and early childhood teachers. It 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 seven divisions offering thirty-seven majors and twenty-nine minors in which students may qualify for the baccalaureate degree. 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. Various pre-professional and terminal curricula are available to students wishing to qualify for admission to a professional school and to those wishing to take an associate degree program of a technical or vocational nature.

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. The student group has a few more women than men.

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

*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.

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FACILITIES

The following buildings house the academic activities of the college:

Collegedale Campus

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

Daniells Hall—Mathematics, Physics, Computer Science

Hackman Hall—Biology and Chemistry

Herin Hall—Nursing

Ledford Hall—Industrial Education

McKee Library

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, Teaching Learning Center, K.R.'s Place

Summerour Hall—Behavioral Sciences, Education, Home Economics

Lynn Wood Hall

J. Mabel Wood Hall—Music

Wright Hall—Administration

Other facilities on or near campus that serve student needs:

Collegedale Academy—secondary laboratory school

Collegedale Seventh-day Adventist Church

College 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

Talge Hall—men's residence hall

Thatcher Hall—women's residence hall

Trailer park

WSMC FM90.5—a 100,000-watt stereo, non-commercial, educational radio station affiliated with National Public Radio, The Associated Press, and The Adventist Radio Network

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

Orlando Center

Florida Hospital Medical Center (FHMC)

Linscott Hall—Administration, residence hall

Seventh-day Adventist Church at FHMC

ACADEMIC POLICIES, INFORMATION, AND SERVICES

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 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 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.

GENERAL DEGREE REQUIREMENTS

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

- ▶ Satisfactory make-up of admissions deficiencies. (See page 198).
- ▶ A minimum of 124 semester hours with a resident and cumulative

Academic Policies

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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. Each minor must include at least six upper division hours.
- ▶ 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 -" may 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 three writing emphasis courses including one in the major field and one outside the major field.

The general degree requirements for an associate degree are as follows:

- ▶ A minimum of 64 semester hours and a resident and cumulative grade point average of 2.00 (C) or above. *Nursing majors need 68 semester hours.

*For educational certification, the minimum grade point average (GPA) of 2.5 must be met both in education and in the field of certification. In elementary education, a GPA of 2.25 is required in cognate courses. 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.

- ▶ Completion of a major with a cumulative grade point average of at least 2.00, 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.

CLASS STANDING

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

Eligibility for office requires an acceptable scholastic and citizenship record.

GRADUATION REQUIREMENTS

Degree Candidacy: A student may become a degree candidate when he enters upon the school term during which it will be possible 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 each semester or (b) for others, the last day of the month in which graduation requirements are met.

Academic Policies

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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.

In Absentia Policy: Seniors who are enrolled at Southern College during the semester in which the commencement exercise is held are to be present for the ceremony or an *in absentia* fee of \$30 will be levied.

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 must be met before enrollment in upper division classes.**

GENERAL EDUCATION

It is an awesome task to distill from the accumulated human experience those stories, histories, thoughts, and skills which can be transmitted in a classroom setting and at the same time contribute maximally and positively to the student's own experience. The choices are many, and competition for inclusion is intensive. Yet degree programs do necessitate a certain amount of structure so choices have to be made. Each department is allowed a great deal of freedom in choosing requirements for the major area of specialization. However, the faculty have chosen certain experiences, known as general education requirements, to which they feel all degree candidates should have some exposure.

Underlying all general education requirements are the basic academic skills of English and mathematics. Proficiency in these skills is essential to the transmission of much of the human experience.

The faculty of Southern College chooses without apology the religious experience as fundamental to a correct understanding of all of man's other experiences. The religious experience embodied in the teachings of the Seventh-day Adventist Church has been chosen to be transmitted to the students. It is recommended as enabling, enriching, and uplifting.

One builds the present and future upon the past, therefore, it is necessary that one have a historical perspective. A society which allows its members a voice in shaping its political, social and economic institutions can survive only if these citizens are well versed in mankind's history and cognizant of experiences, past and present, with these institutions.

Language, literature, and the arts give expression to thoughts and feelings. Acquaintance with these modes of communication enriches the life through more effective expression of one's thoughts and feelings and through better understanding and appreciation of the thoughts and feelings of others.

A study of the natural sciences develops an inquiring attitude toward one's environment. It provides individuals with empirical and rational methods of inquiry and an awareness of both the potential and the limitations of science and technology in solving problems.

Social units ranging from the individual through the family, church, communities, and nations exert a tremendous influence upon one's life. A study of those units and the conditions which affect them positively or adversely contributes to individuals' adjustment within their society and their opportunity to improve both themselves and society.

Creative, practical, and recreational skills provide exercise, relaxation, and a sense of well-being and accomplishment. They provide a wholesome and healthy diversion from heavy academic programs and from work responsibilities later in life.

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GENERAL EDUCATION REQUIREMENTS

		Semester Hours	
		Assoc. Bach.	
AREA A. BASIC ACADEMIC SKILLS	<i>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.</i>		
1. English		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. Mathematics		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.		
AREA B. RELIGION		6	12
	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.		
1. Biblical Studies			
	All RELB courses.		
2. Religion			
	All RELT courses. (Only one of RELT 317, 318, 325, will apply.)		
AREA C. HISTORY, POLITICAL AND ECONOMIC SYSTEMS	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.		
1. History		3	6
	All HIST courses.		
2. Political and Economic Systems			3
	All PLSC courses; GEOG 204 (elementary education majors only); GEOG 306, ECON 213, 224, 225.		

AREA D. LANGUAGE, LITERATURE, FINE ARTS 2 9

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.

1. **Foreign Language**
FREN 101:102, 211:212; GRMN 101:102, 211:212; SPAN 101:102, 211:212, 344; RELL 271:272, 311:312, 471:472.
2. **Literature**
All ENGL literature courses; all SPAN literature; MDLG 304.
3. **Music and Art Appreciation**
HMNT 205; MUHL 115, 215, 314, 315; 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 325, PHYS 317, 318. Students who have less than two secondary school units in science 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.

1. **Biology**
BIOL 103, 104, 105, 106, 125, 155:156, 226, 314, 325.
2. **Chemistry**
CHEM 111:112, 113:114, 151:152, 203.
3. **Physics**
PHYS 107, 155, 211:212, 213:214, 317, 318.
4. **Earth Science**
ERSC 105, 106.

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Semester Hours
Assoc. Bach.

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 326; all SOCI courses except 223, 365; SOCW 221, 222, 316, 375; EDUC 217, 427.

2. Family Science

CRTF 226, HMEC 146, 147, 201, 202, 313; BUAD 128, SOCI 223, 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; ENGL 314; CRTF 112, 225, 312.

2. Practical Skills

ACCT 103, 121:122; CPTR 105, 106, 107, 120, 125, 127, 131, 132, 217, 218; HMEC 164, 165, 166, 244, 345; FDNT 126, 127, 317; INDS 145, 149, 154, 155, 174, 175, 176, 177, 185, 264, 265, 274, 323, 325; SECR 104, 105, 114, 115, 214, 218; AGRI 100; LIBR 125; CRTF 101; EDUC 250.

3. Recreational Skills

All PEAC courses; PETH 261.

ADDITIONAL BACHELOR'S DEGREE REQUIREMENTS

1. Forty upper division hours.

2. Three writing-emphasis classes. These classes are identified by a "(W)" following the course name, e.g., History of the South (W), in the divisional listings. One such class must be in the student's major field and one must be outside the major field.

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 grade of B (3.00) or higher in each honors sequence course 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 classes at another institution must secure prior approval from the honors committee.

After successfully completing one year in the honors program, a Southern Scholar will be eligible to audit one class per semester without charge. In addition, upper division students who have maintained their participation in this program for at least one year will receive a reduction in their tuition equivalent to the cost of one three-hour class per semester. This reduction does not apply during the summer session.

HONORS STUDIES SEQUENCE

A. General Education

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

1. Area B2. One of the following courses must be selected: BIOL 325, PHYS 317, PHYS 318.
2. Area D1. Foreign language competency must be attained at the intermediate level.

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3. Area D2. One of the following courses must be selected: ENGL 445, MDLG 304.
4. Area D3. HMNT 205 must be selected.
5. Area E. MATH 115 or MATH 215 and one of the following science sequences must be selected: BIOL 155:156; CHEM 151:152; PHYS 211:212 with PHYS 213:214.

B. Honors Seminar

A sequence of eight lectures, 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 but who do not participate in the Southern Scholars Honors Program 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 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 38 majors and 29 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."

BACHELOR DEGREE PROGRAMS

Majors offered for the Bachelor of Arts degree are:

Art	History
Biology	International Studies
Chemistry	Mathematics
Communication	Music
Computer Science	Physics
English	Psychology
French	Religion
German	Spanish
Health, Physical Education and Recreation	

Majors offered for the Bachelor of Science degree are:

Behavioral Science	Industrial Education
Biology	Long-Term Health Care
Business Administration	Mathematics
Chemistry	Medical Technology
Computer Science	Nursing
Elementary Education	Office Administration
Food Service Administration	Physics
Health Science	Public Relations
Home Economics	

The Bachelor of Business Administration degree is available to students who are planning for a professional career in business. Majors are available in Accounting and Management. Detailed requirements are outlined under the Department of Business.

The Bachelor of Music degree is available to students planning to major in music with special emphasis in music education. The detailed requirements for this professional degree are outlined under the Department of Music.

The Bachelor of Social Work degree is available to students planning on a career in social work. The detailed requirements are outlined under the Department of Behavioral Science.

Minors are offered in most majors and emphases as well as the following:

Biblical Languages	Foods and Food Service
Fields Related to English Education	Library Science
	Practical Theology

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ASSOCIATE DEGREE PROGRAMS

Southern College offers the following associate degrees:

Accounting	Home Economics
Allied Health	Industrial Technology
Child-Care Administration	Media Technology
Computer Science	Nursing
Food Service Technology	Office Administration
General Studies	

Complete details of course requirements for the associate degrees are outlined in the descriptions in the bulletin section "Courses of Study."

ONE-YEAR CERTIFICATE PROGRAMS

The college has one-year certificate programs in the following areas:

- Auto Body Repair (Industrial Education)
- Food Service Production (Home Economics)

Requirements for these programs are given in the appropriate departmental sections of this CATALOG.

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	Occupational Therapy
Dental Hygiene	Optometry
Dentistry	Osteopathic Medicine
Dietetics	Pharmacy
Engineering	Physical Therapy
Law	Public Health Science
Medical Record Administration	Radiology Technology
Medical Technology	Respiratory Therapy
Medicine	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, Medical Records Administration, Occupational Therapy, Physical Therapy, Radiology Technology, and Respiratory 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 in the section on "Interdepartmental Programs."

ACADEMIC INFORMATION

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 \$25.00. The course load of a late registrant will be reduced by one to two semester hours for each expired week of instruction. No student should expect to register after two weeks of the semester have elapsed.

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

To make program changes the student must obtain the appropriate change of registration voucher at the Office of Records. After obtaining the necessary signatures indicating approval of the change, the student must return the form to the Office of Records. Course changes and complete withdrawals from the school become effective on the date the voucher is filed at the Office of Records. A fee of \$10.00 will be assessed for each change in program the first week of instruction.

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

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 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 after that 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 during the first week of instruction only. No credit is given for courses audited, and the fee is one-half of the regular tuition charge.

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COURSE LOAD

College courses are expressed in semester hours at Southern College. 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. Thus a sixteen-semester-hour class load should require forty or more hours of study each week on the part of the student. Except by permission of the Vice President for Academic Administration, a student may not register for more than eighteen or less than eight 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 exceedingly 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 according to the standards and practices of the college. 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 at the college.

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		

A student may receive an "I" (incomplete) because of illness or other unavoidable delay. A student who believes he is eligible for an incomplete must secure from the Office of Records the proper form on which he may file application with the Vice President for Academic Administration to receive an 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 he takes 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.

The grade point average may be 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

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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 for 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.

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 sponsored or approved by the college. Those on academic probation will not be allowed to participate in academic activities causing class absences and will not be allowed to participate in on or off campus extracurricular activities including fire department duties.

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 to graduate.

Transfer students should have a grade point average of at least 2.00 in order to be eligible for 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-up	1.95

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.

In order to be eligible for financial aid, recipient must maintain satisfactory academic progress. Satisfactory academic progress is defined as maintaining a cumulative and resident grade point average of 2.0. 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

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this suspension, the suspension may be appealed to the Loan and Scholarship Committee. This policy is generally applied to financial aid from institutional and private sources as well as federal programs.

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 head of their major division. 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 Records Office information desk in Wright Hall.

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 division chairman.
3. If justice has not been attained 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 Cabinet. 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 be scheduled around the class program.

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, library, switchboard, and residence halls. The Absence Committee determines whether or not to excuse the absence and so 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.

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

Examination. Because of problems concerning time, expense and fairness, final examinations are rarely rescheduled. Students desiring to reschedule final examinations must obtain a request form from the Vice President for Academic Administration, fill it out completely, make two additional copies and submit all three copies to the teacher involved. The teacher will approve or deny the request, return one copy to the student and send one to the Vice President for Academic Administration. If approved, the rescheduled examination will be given at a time convenient to the teacher and a fee of \$40 per examination will be assessed. The \$40 fee will be waived in cases of illness verified by Student Health Service or a physician, death in the immediate family, or four or more examinations scheduled for one day.

Chapel. The chapel service is provided for the spiritual and cultural benefit of the college family, to promote the interests of Southern College, and to develop and conserve a spirit of campus unity. In essence the chapel attendance policy is the same as for class attendance in that no absences are permitted except for illnesses, authorized school trips, or emergencies. An excuse must be presented at the office of the Vice President for Student Affairs within 48 hours after the absence. It is the responsibility of the students to keep track of their chapel absences. Students are allowed four unexcused absences from chapel per semester. Additional unexcused absences can result in a student's being placed on Citizenship Probation. A continued absence problem can

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disqualify a student from attending Southern College. A satisfactory chapel attendance record is required for readmission.

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 division involved. A fee of \$35 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 divisional 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 correspondence 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 of Southern College. The 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 \$2.00 in cash, check, or money order for each transcript ordered. Because of legal difficulties, telephone requests from students 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.

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COURSE NUMBERS

Each course number consists of three figures as follows:

(a) The first numeral indicates class year status as follows:

- 0 — remedial (Institutional credit only)
- 1 — freshman level
- 2 — sophomore level
- 3 — junior level
- 4 — senior level

(b) The third numeral indicates the following:

- 1 — signifies a course which is first in a sequence
- 2 — signifies a course which is second in a sequence and presupposes one as a prerequisite

All other figures have no designation.

Within a given 100 sequence there is no necessary 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 units in and of themselves. Course numbers separated by a comma represent units in and of themselves, either one of which may be counted for graduation without reference to sequence.

Course numbers separated by a colon are year 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.

Upper division courses are numbered 300 and above.

ACADEMIC SERVICES

E. A. ANDERSON LECTURE SERIES

The E. A. Anderson Lecture Series is an annual feature of the business curriculum at Southern College. 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 Brock Hall on the third floor in the E. A. Anderson Business Seminar Room.

FLORENCE OLIVER ANDERSON LECTURE SERIES

Each year the Division of Nursing 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.

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.

WSMC FM90.5

WSMC FM90.5 is a full-power (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 10 and 15 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 Southern College to the greater Chattanooga community, with a coverage area including a 100-mile radius of Chattanooga. It is the oldest noncommercial fine arts station in southeastern Tennessee, created in 1961. 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.

Programming on WSMC revolves around the phrase "The Classic Experience." The station produces high-quality fine arts, informational, educational, and inspirational programs daily. 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.

THE HUMANITIES/PERSPECTIVES 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 the Humanities Division and Religion Division, 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.

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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 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 volumes. More than 1,000 periodicals are currently received which include a large number of titles kept permanently on microform. McKee Library was the first academic library in Tennessee to go online with a computerized card catalog. The data base now includes approximately 50% of the collection. The library was also a charter member of Ohio College Library Center and Southeastern Library Network automated systems.

The facility has been in use since 1970, and provides seating for 400, including 300 individual study carrels. Computer terminals and electric typewriters are available for student use.

PRESIDENT'S LECTURE SERIES

Initiated last year, the President's Lecture Series brings speakers of national or international prominence to the Southern College campus. The lecturers address both the general public and the campus community. Lecturers for 1985-86 were:

Rosalyn Yalow, Physicist, Nobel Laureate

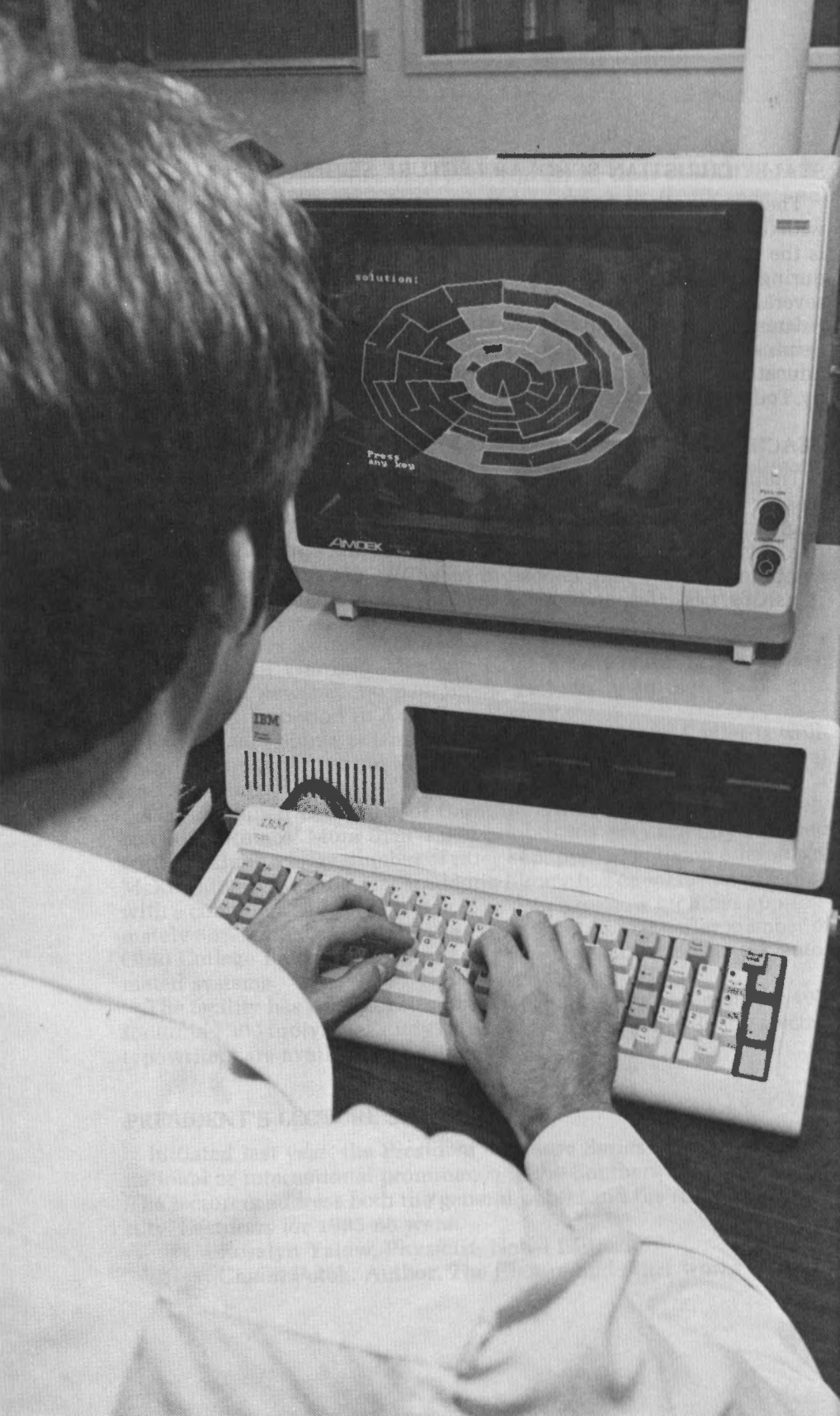
Chaim Potok, Author, *The Chosen* and other works

STALEY CHRISTIAN SCHOLAR LECTURE SERIES

The Thomas F. Staley Foundation provides the Division 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. Recent lecturers have included: J. Edward Adams, Director of Advanced Studies at Westminster Theological Seminary in California and a counselor at the Christian Counseling and Educational Foundation; Carl F. H. Henry, founding editor of *Christianity Today*, currently lecturer-at-large for World Vision International.

TEACHING LEARNING CENTER

The Teaching Learning Center provides a variety of interrelated services for the student. Tutors are available throughout the day to assist in English, math, science, and many other areas. This service is provided free of charge to students. Students are given the opportunity to use a computer, or they may choose to make use of the numerous books, filmstrips, cassettes, and videos the TLC has to offer.



COURSES OF STUDY

ACADEMIC DIVISIONS

For administrative purposes, the departments of instruction are organized into divisions. The divisions serve to foster interdepartmental activities and unite departments which are part of the same general field of knowledge. Listed below are the divisions with their various departments, directors, and associated programs. The Division of Adult Studies and Special Programs has no courses of its own, but coordinates continuing education conventions and workshops and operates the Conference Center.

ADULT STUDIES AND SPECIAL PROGRAMS . Marvin Robertson* BUSINESS AND TECHNOLOGY

- Business Administration Wayne Vandevere*
- Industrial Education Wayne Janzen
- Office Administration Joyce Cotham

HUMAN DEVELOPMENT

- Behavioral Science Gerald Colvin
- Education Cyril Roe
- Health, Physical Education, and Recreation .. Robert Kamieneski*
- Home Economics Thelma Cushman
- Library Science Charles Davis

HUMANITIES

- Art Robert Garren
- Communication Don Dick
- English Barbara Ruf
- History William Wohlers*
- Modern Language Robert Morrison
- Music Marvin Robertson

NURSING Catherine Knarr*

RELIGION Gordon Hyde*

SCIENCE Mitchell Thiel*

- Biology Stephen A. Nyirady
- Chemistry Steven Warren
- Computer Science Tim Korson
- Mathematics Lawrence Hanson
- Physics Ray Hefferlin

* Indicates division chairman

ART

Robert Garren, M.F.A., *Chairman*

Basic to the philosophy of the Department of Art is the provision for the quality of environment most conducive to spiritual, aesthetic, and technical growth. The instructors desire to help all students become aware of their options in the field of art and to prepare them systematically to meet the needs of their respective choices, whether they are oriented commercially or aesthetically.

Students majoring in Art must meet the specific requirements of the Art Department (below) and the General Education program (pages 14-16). For Art and most other programs in the Humanities Division, intermediate foreign language is required.

BACHELOR OF ARTS DEGREE IN ART

Major: Thirty-six hours to include ART 104:105, 109, 110, 344, 345, 499, with not less than 14 hours upper division. Cognate requirements: CRTF 225. A foreign language at the intermediate level is required.

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

Teaching Endorsement: The following are the minimum requirements.

ART 104:105	Beginning Drawing I, II	4 hours
ART 109, 110	Design I, II	6 hours
	Art techniques elective	2 hours
ART 344	History of Art	3 hours
	Art appreciation elective	2 hours
	Art elective	3 hours
EDUC 230, 438	Methods - Art	4 hours
	TOTAL	24 hours

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.

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, 110. Design I, II (G-1) 3,3 hours

Problems in two-dimensional art, dealing with line, shape, form, color, and texture, with emphasis on commercial applications. (Fall, Spring)

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. The summer tour will include Washington, D.C., Philadelphia, New York City, Newport, Rhode Island, Boston, and the Storm King Art Center in upstate New York. 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 14-16 for explanation of General Education requirements.

BEHAVIORAL SCIENCE

Ben Bandiola, Ph.D.
Gerald Colvin, Ed.D., Ph.D., Chairman
Ed Lamb, M.S.S.W., A.C.S.W.
Larry Williams, M.S.W.

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.

Behavioral Science

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The faculty promotes such positive values and practices through example and instruction.

Students wishing to prepare for graduate study in community and/or family counseling, law, personnel work, psychology and sociology should consider a major in a Behavioral Science emphasis or Psychology. The Bachelor of Science in Social Work is also offered for those students seeking preparation for later service in child welfare, corrections, health services, mental health, medical school, and human services social work. 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.

BACHELOR OF ARTS DEGREE IN PSYCHOLOGY

Major: Thirty hours including PSYC 124, 128, 225 or 315, 326, 384, 465, and 495. Cognate requirements are MATH 215 and three hours each in biology and computer science. Students planning for graduate study in psychology are urged to take beyond the basic 30 hours required.

BACHELOR OF SCIENCE DEGREE IN BEHAVIORAL SCIENCE

Major: Forty-five hours with a 21-hour emphasis in Family Studies or Sociology, including core requirement courses BHSF 394; PSYC 124, 128; SOCW 221, 222; SOCI 125, 223, 424. Cognate requirements total nine hours: 3 hours in Biology, 3 hours in Economics, and 3 hours in MATH 215. Additional requirements for the specific emphases in the Behavioral Science major are:

✓ **Family Studies emphasis:** PSYC 233, 315; SOCI 295 or 495, 365; HMEC 147, 201, 202. Remaining course-work will normally be chosen from the following courses: PSYC 225, 367, 377; SOCW 375.

Sociology emphasis: SOCI 427 and 295 or 495.

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

Minor—Behavioral Science. Eighteen hours selected from any Behavioral Science areas and including PSYC 124, SOCW 221, and SOCI 125, with a minimum of six hours of upper division Behavioral Science classes.

Minor—Psychology. Eighteen hours including PSYC 124 and 128.

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

BACHELOR OF SOCIAL WORK DEGREE

Major: Forty-eight hours including BHSF 115, 394; SOCW 221, 222, 314, 315, 316, 435; PSYC 124, 128, 315; SOCI 125, 223, 424, 495. Cognate requirements: any human biology and ECON 213.

BEHAVIORAL SCIENCE FOUNDATIONS

BHSF 115. Orientation to the Behavioral Sciences 1 hour

An examination of career choices, training requirements, employment trends in the behavioral sciences. Career and academic guidance will be provided for each student. Some visitations and interviewing asked of students. (Fall, Spring)

BHSF 394. Research Methods (W) 3 hours

Prerequisite: MATH 215.

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

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. (Fall, Spring)

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. No credit will be granted if PSYC 126 or 127 has been taken. (Fall, Spring)

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

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. (Spring)

PSYC 225. Theories of Personality (F-1) 3 hours

A systematic study of the development, dynamics, and structure of personality. Methodology and theory are studied in relation to personality development. (Fall)

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 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. (Spring)

PSYC 326. Physiological Psychology 3 hours

Prerequisite: Three hours in Biology.

This course focuses on the physiological substrates of behavior. Specific

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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. (Fall)

PSYC 355. Organizational Behavior **3 hours**
(See BUAD 355 under Business Administration Department listing.)

PSYC 349. Aging and Society (F-1) **3 hours**
(See SOCI 349. Aging and Society (F-1))

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. (Spring)

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. (Fall)

PSYC 384. Experimental Psychology (F-1), (W) **4 hours**
Prerequisite: MATH 215.
The application of experimental methods of research in psychology. Literature review, experimental design, data collection and statistical analysis to be completed for at least four papers. Three lectures and one laboratory per week. (Spring)

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. (Spring)

PSYC 425. Theories of Learning (F-1) **3 hours**
A review of the current theories and principles related to both learning and teaching. Advanced analysis of human problem-solving, thinking, reasoning and other correlates of human cognition processes. (Spring)

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. (Spring, alternate years)

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. (Fall, Spring)

SOCIAL WORK

- SOCW 221. Social Welfare as an Institution (F-1)** 3 hours
Social welfare programs are viewed from both historical and philosophical perspectives. Organizations in which social work is practiced are evaluated. (Fall)
- SOCW 222. Social Welfare Issues and Policies (F-1)** 3 hours
Prerequisite: SOCW 221 or permission of the instructor.
A study of contemporary issues and policies that influence the delivery of social services. (Spring)
- SOCW 314. Social Work Methods (W)** 3 hours
A course oriented toward problem-solving technologies used in working with individuals, groups, and communities. Diagnostic assessments of the person-problem-situation, ego supportive procedures, and problem-solving processes are emphasized. (Fall)
- SOCW 315. Group Work (W)** 3 hours
A course designed to develop a basic understanding of group theory and process from a therapeutic perspective. (Spring)
- SOCW 316. Community Organization and Policy (F-1)** 3 hours
Community organization principles are explored including public policy development and implementation. (Fall)
- 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. (Fall)
- SOCW 435. Social Work Practicum** 4,4 hours
Prerequisite: SOCW 314.
This course provides opportunity for students to apply the combined techniques of casework, group work, and/or community organization through direct participation in the social service delivery system. Through his participation 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 credit. Course may be repeated once. (Fall, Spring, Summer)
- 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)

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. Minorities in America (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 14-16 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 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). A fee is required to cover travel expenses.

BIOLOGY

Edgar Grundset, M.A.
Duane Houck, Ph.D.
Stephen A. Nyirady, Ph.D., Chairman
Marcella Woolsey, M.A.

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, ethology, cytology, etc.), teaching at the college or graduate level, industrial research, and environmental applications for either business, 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.

BACHELOR OF ARTS DEGREE IN BIOLOGY

Major: Thirty hours including BIOL 155, 156, 316, 325, 485; ecological course 226 or 317; botany 408 or 419; physiology 418 or 419; including two of the following field courses: 314, 317, 318, 319, 408, 411. Up to three hours of CHEM 323 may apply on a major or minor. Cognate requirement: CHEM 151:152. A course in general physics is highly desirable. A minor in chemistry is recommended.

BACHELOR OF SCIENCE DEGREE IN BIOLOGY

Major: Forty hours including BIOL 155, 156, 225, 316, 325, 412, 415, 485; ecological course 226 or 317; botany 408 or 419; physiology 418 or 419; including two of the following field courses: 314, 317, 318, 319, 408, 411. Up to three hours of CHEM 323 may apply on a major. Cognate requirements: CHEM 151:152; MATH 114 and 215. A course in general physics is highly desirable.

Minor: Eighteen hours including BIOL 155, 156 (or equivalent). A course in physiology is strongly recommended. Up to three hours of CHEM 323 may apply on a minor. A minimum of six hours must be in upper division.

Teaching Endorsement: The student must earn a major in the subject area of his first teaching field. He may add the following endorsements by meeting the number of hours indicated below.

Biology

BIOL 155, 156	Foundations of Biology	8 hours
	Biology electives	<u>8</u> hours
	TOTAL	16 hours

General Science

BIOL 155, 156	Foundations of Biology	8 hours
	Chemistry and Physics electives	<u>8</u> hours
	TOTAL	16 hours

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.

AGRI 100. Science of Gardening (G-2) 3 hours

Scientific principles of plant growth with emphasis on food crops. Various aspects of gardening culture emphasized are requirements for plant growth, soil building, crop nutrition, identification and control of diseases and insects, and plant propagation. Two hours lecture and three hours laboratory. (Fall, Spring)

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 105:106. Anatomy and Physiology (E-1) 3,3 hours

A study of the fundamentals of human anatomy and physiology. Two lectures and one laboratory period each week. Does not apply on a major in Biology. (Fall, Spring, Summer)

BIOL 125. Basic Microbiology (E-1) 3 hours

A study of the principles of microbiology, various types of microorganisms and their relation to health and disease. Two lectures and one laboratory period each week. Does not apply on major in Biology. (Fall, Spring, Summer)

BIOL 155:156. General Biology (E-1) 4,4 hours

This is an introductory course in biology open to all college students. The

course is designed to give the non-science student a modern treatment of the fundamental processes of plant and animal life as well as to provide a satisfactory basis upon which a biology major may build. Three lectures and one laboratory period each week. (Fall, Spring)

BIOL 225. General Microbiology **4 hours**

Prerequisite: BIOL 156 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 laboratory period each week. (Spring)

BIOL 226. Environmental Biology (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. Three lectures each week. (Spring)

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

See BIOL 495.

BIOL 313. Embryology **3 hours**

Prerequisite: BIOL 155, 156 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 laboratory period each week. (Fall)

BIOL 314. Ornithology (E-1) **3 hours**

Prerequisite: BIOL 103, or 156 or consent of instructor.

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 a small additional charge to help cover transportation costs. (Spring)

BIOL 315. Parasitology (W) **3 hours**

Prerequisite: BIOL 156 or consent of instructor.

A general survey of the more important parasites of man and domestic animals. Two lectures and one laboratory period each week. (Spring)

BIOL 316. Genetics **3 hours**

Prerequisite: BIOL 125 or 155, or consent of instructor.

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

BIOL 317. Ecology 3 hours

Prerequisite: BIOL 156 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)

BIOL 318. Ichthyology 3 hours

Prerequisite: BIOL 155, 156 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 laboratory period each week. (Taught every third year)

BIOL 319. Herpetology 3 hours

Prerequisite: BIOL 155, 156 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 laboratory period each week. (Taught every third year)

BIOL 325. Issues of Natural Science and Religion (E-1), (W) 3 hours

A survey of the theories of origins and the extent of variations among animals today. Special attention is given to the factual basis for the theories of special creation and evolution. Credit can be applied toward either a Biology or a Religion major or minor. Three lectures each week. (Fall)

BIOL 408. Systematic Botany 3 hours

Prerequisite: BIOL 156 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 411. Mammalogy 3 hours

Prerequisites: BIOL 155, 156 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 laboratory each week. (Taught every third year)

BIOL 412. Cell Biology 3 hours

Prerequisites: BIOL 155, 156; CHEM 311, 312.

This course, designed for advanced biology and chemistry majors, deals primarily with cell structure and function. Building on cellular principles learned in BIOL 155, 156, 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, odd years)

BIOL 415. Comparative Anatomy **3 hours**

Prerequisite: BIOL 155, 156 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 laboratory period each week. (Spring)

BIOL 417. Animal Histology **3 hours**

Prerequisite: BIOL 155, 156 or consent of instructor.

A descriptive study of normal tissues, including those of man. The microscopic identification and characteristics of stained section is emphasized in the laboratory. One lecture and two laboratory periods each week. (Fall, even years)

BIOL 418. Animal Physiology **3 hours**

Prerequisite: BIOL 106, 156, 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 laboratory period each week. (Spring)

BIOL 419. Plant Physiology **3 hours**

Prerequisite: BIOL 155, 156 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 laboratory period each week. (Spring)

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

Open to Biology majors or minors only or with approval of Biology staff. 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 Division Chairman. (Fall or Spring)

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

Prerequisite: BIOL 155, 156 or equivalent.

BIOL 495 open to Biology majors or minors only.

Designed for the student who wishes to do private study or research or for a group of students who wish a special course not listed in the regular offerings. Examples: entomology, economic botany, animal behavior, etc. 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)

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 14-16 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 will be 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 ADMINISTRATION

Richard Erickson, M.B.A.
William Richards, Ph.D., Leave of Absence
Cecil Rolfe, Ph.D.
Dan Rozell, M.A.
Wayne VandeVere, Ph.D., Chairman

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.

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 towards 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 within organizations sponsored by this denomination.
5. 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 and management and a Bachelor of Science degree (B.S.) with majors in Business Administration, and Long-Term Health Care.

For those who desire a two-year program, an Associate of Science degree (A.S.) is available in Accounting.

BACHELOR OF BUSINESS ADMINISTRATION DEGREE

The B.B.A. degree requires a basic core of business courses plus a major in accounting or management. Basic Core Course requirements are as follows:

ACCT 121:122	Principles of Accounting	6 hours
ACCT 321	Cost and Managerial Accounting I	3 hours
ECON 224:225	Principles of Economics	6 hours
BUAD 313	Business Statistics	3 hours
BUAD 314	Quantitative Methods for Business Decisions	3 hours
BUAD 315	Business Finance	3 hours
BUAD 326	Introduction to Marketing	3 hours

BUAD 334	Principles of Management	3 hours
BUAD 337:338	Business Law	6 hours
BUAD 488	Seminar in Business Administration ..	1 hour
SECR 315	Business Communications	3 hours
	TOTAL	40 hours

Major—Accounting: 23 hours plus the above B.B.A. Core Requirements:

ACCT 211:212	Intermediate Accounting	6 hours
ACCT 317	Federal Income Taxes	4 hours
ACCT 322	Cost & Managerial Accounting II	3 hours
ACCT 417	Auditing	4 hours
	Accounting electives	3 hours
BUAD 357	Business Ethics	3 hours
or		3 hours
BUAD 414	Business Policies	—
	TOTAL	23 hours

Major—Management: 23 hours plus the above B.B.A. Core Requirements:

ACCT 211	Intermediate Accounting	3 hours
BUAD 344	Human Resource Management	3 hours
BUAD 353	Management of a Small Business	3 hours
BUAD 355	Organizational Behavior	2 hours
BUAD 357	Business Ethics	3 hours
BUAD 414	Business Policies	3 hours
BUAD 347	Business and Government	3 hours
or		3 hours
ECON 314	Money & Banking	—
	Electives in ACCT, BUAD, or ECON ..	3 hours
	TOTAL	23 hours

Among the General Education Requirements, the B.B.A. degree student must include SPCH 135, a course in Psychology, and CPTR 127.

BACHELOR OF SCIENCE DEGREES

Major—Business Administration: Forty-three hours including ACCT 121:122, 211; BUAD 313, 314, 315, 326, 334, 337, 338, 357, 414, 488; ECON 224, 225; plus three hours in ACCT, BUAD, or ECON. Cognate requirements: CPTR 127 and SECR 315.

Major—Long-Term Health Care: Forty-seven hours including ACCT 121:122; BUAD 315, 334, 337, 338, 357, 431, 432, 434, 435, 497; ECON 224, 225. Cognate requirement: CPTR 127.

Minor—Business Administration: Eighteen hours including ACCT 121:122; ECON 213 or 224; BUAD 334 or 344; and six hours of upper division courses in Accounting, Economics or Business Administration.

Business Administration

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ASSOCIATE OF SCIENCE DEGREE

Major—Accounting: Thirty hours for the Associate of Science degree, including ACCT 121:122, 211:212, 321; BUAD 128, 337; ECON 213 or 224; plus six hours electives in Accounting, Economics and Business Administration. Cognate requirement: CPTR 127, SECR 105, or equivalent.

Teaching Endorsements: The student must earn a major in the subject area of his first teaching field. He may add the following endorsements by meeting the number of hours indicated below.

Bookkeeping

ACCT 121:122	Principles of Accounting	6 hours
	Accounting elective	4 hours
ECON 224 or ECON 225	Principles of Economics	3 hours
	Two of the following three areas for a total of	6 hours
BUAD 337 or 338	Business Law (3)	
BUAD 128	Personal Finance (3)	
SECR 315	Business Communications (3)	
	TOTAL	19 hours

Business Law

ACCT 121	Principles of Accounting	3 hours
ECON 224 or ECON 225	Principles of Economics	3 hours
BUAD 337, 338	Business Law	6 hours
	Business elective	3 hours
BUAD 128 or SECR 315	Personal Finance (3)	3 hours
	Business Communications (3)	
	TOTAL	18 hours

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.

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 towards a bachelor's degree offered by the Division of Business and Office Administration. (Spring)

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

A course designed to introduce the student to the fundamentals of accounting generally recognized as "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. (Fall, Spring, Summer)

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 316. Fund and Institutional Accounting 3 hours

Prerequisite: ACCT 121:122.

A course designed to provide an in-depth coverage of the concepts of fund accounting as they apply to governmental units and not-for-profit institutions including schools, hospitals, and churches. Considerable attention will be given to accounting principles as used by the various institutions of the Seventh-day Adventist Church. (Fall)

ACCT 317. Federal Income Taxes 4 hours

Prerequisite: ACCT 121:122.

A course designed to provide an explanation and training in the application of personal and corporate Federal income taxes to specific problems. Social Security taxes are also included. (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 3 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, and segment reporting. (Spring)

Business Administration

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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)

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**

Prerequisite: CPTR 127 or MATH 104.

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)

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 337, 338. Business Law 3,3 hours

A course designed to study the nature and social functions of law including social control through law and the law of commercial transactions and business organizations. (Fall, 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 347. Business and Government 3 hours

A study of the ways in which business and economic life are shaped and directed by government. The legal framework within which business is conducted and the evolution of public policy toward business are examined. (Fall)

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. (Spring)

BUAD 355. Organizational Behavior 2 hours

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)

BUAD 357. Business Ethics **3 hours**

The ethical and social responsibility of individual managers and the firm are examined as they relate to the needs and demands of society in a Christian environment. Topical issues include social responsibility, personal relations, environmental impact, consumerism, product liability, and discrimination. (Spring)

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)

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 Division 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 14-16 for explanation of General Education requirements.

CHEMISTRY

Wiley Austin, M.S.
 Mitchell Thiel, Ph.D.
 Steven Warren, Ph.D., Chairman

Since everything we touch, eat, wear, or use is made of chemicals, the study of chemistry is an exciting and yet practical pursuit. A major in Chemistry can be your key to a rewarding and challenging career in a wide variety of areas such as the basic sciences or industrial research, pharmacology, toxicology, chemical engineering, forensic chemistry, chemistry education, medical and paramedical careers, as well as many business applications such as pharmaceutical and chemical sales, patent research and patent law, marketing and consulting, to name just a few.

The B.S. degree in Chemistry is recommended in preparation for graduate study leading to research oriented careers, professional applications of chemistry, or post-secondary education. The B.A. degree is the preferred degree for high-school teaching, premedicine, or preparamedical fields and possibly for some of the business applications.

BACHELOR OF ARTS DEGREE IN CHEMISTRY

Major: Thirty hours including CHEM 151:152, 311:312, 313:314, 315, 321, 485 or 497. CHEM 411:412, 413:414 may be substituted for CHEM 315, 321. The first course in Calculus is a cognate requirement. CPTR 125 or 131 is strongly recommended.

BACHELOR OF SCIENCE DEGREE IN CHEMISTRY

Major: 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 115, 217 or 315, CPTR 125 or 131. German or French is highly recommended. This course of study is designed for the professional chemist.

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

Teaching Endorsement: The student must earn a major in the subject area of his first teaching field. He may add the following endorsements by meeting the number of hours indicated below.

Chemistry

CHEM 151:152	General Chemistry	8	hours
	Chemistry electives	8	hours
	TOTAL	16	hours

General Science

BIOL 155, 156	Foundations of Biology	8	hours
	Chemistry and Physics electives	8	hours
	TOTAL	16	hours

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.

CHEM 103. Pre-General Chemistry 2 hours

Prerequisite: Successful completion of two years of high school algebra or MATH 104.

Basic concepts in chemistry and mathematics as needed to begin General Chemistry. Two hours of lecture each week. Does not apply on a major or minor in chemistry. Taught second semester only. (Spring)

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. Three hours of laboratory each week. Does not apply on 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 or Pre-General Chemistry.

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 203. Concepts of Biochemistry (E-2) 4 hours

Prerequisite: CHEM 111 or successful completion of a high school chemistry course.

A review of basic chemistry and an introduction to the fundamental organic chemistry and biochemistry of the body with emphasis on physiological chemistry. Three hours of lecture and 2½ hours of lab each week. Does not apply on a major or minor in chemistry. (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)

CHEM 313:314. Organic Chemistry Laboratory 3,3 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, Spring)

CHEM 315. Analytical Chemistry **4 hours**

Prerequisite: CHEM 151:152.

A study of equilibria in the context of 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)

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)

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 three or six hours of laboratory each week. Offered on sufficient demand. (Fall)

CHEM 333. Advanced Inorganic Chemistry **3 hours**

Prerequisite: CHEM 151:152.

A systematic discussion of the elements including a study of coordination compounds, noble gases, and the current bonding theories. Three hours of lecture each week. (Fall, even years)

CHEM 411. Physical Chemistry **3 hours**

Prerequisites: CHEM 151:152; CPTR 125 or 218; PHYS 211:212; MATH 115.

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 203. Concepts of Biochemistry (E-2) 4 hours

(E-2), (W) See pages 14-16 for explanation of General Education requirements.

COMMUNICATION

Frances Andrews, M.A.

Don Dick, Ph.D., *Chairman*

Frank Di Memmo, M.S.

Olson Perry, M.A.

The objective of the Communication Department is to prepare students to become more effective Christian communicators. The essence of the gospel commission is to communicate with all. Therefore, the curriculum emphasizes flexibility and breadth. Graduates find employment in a variety of careers. They work in denominational positions in churches, hospitals, schools, offices, and broadcasting stations. Others take business or government positions.

The department offers courses in journalism, radio and television, speech, and public relations. An effort is made to place students in internships to acquire experience in their chosen fields.

BACHELOR OF ARTS DEGREE IN COMMUNICATION

Major: Thirty hours including basic requirements of CRTF 101, 225, 226; JOUR 111, 334; SPCH 135, 319; and twelve hours in the Radio-TV-Film or the Journalism emphasis. Cognate requirements: INDS 145 and six hours intermediate foreign language. Communication majors may substitute three hours—six, with approval of the department chairman—of computer science for intermediate foreign language. Recommended computer science courses are: for three hours, CPTR 120 or 127 (or 105, 106, 107); for six hours, CPTR 120 and 127 (or 105, 106, 107), or CPTR 131 and 132.

Journalism Emphasis—JOUR 212, 316, 427; CRTF 312 plus two hours elected within the overall Communication offerings. This degree program is designed to provide the skills and practices needed for a career in the print media. Attention is given not only to concepts of communicating secular information, but also to sharing the gospel.

Radio-TV-Film Emphasis—CRTF 112, 313, and 314, plus five hours elected within the overall Communication offerings, two of which must be in Radio-TV-Film. This degree program is designed to prepare the student for a career in audio and video media within the church, in business, government, education, and in public or commercial broadcasting.

Minor—Communication: Eighteen hours of Communication classes including SPCH 135, 319; JOUR 111; CRTF 101, 226; with a minimum of six hours of upper division work from overall Communication offerings.

Minor—Radio-TV-Film: Eighteen hours of Communication classes including CRTF 101, 225, 226, 313; SPCH 135, 319; with a minimum of six hours within the minor to be upper division in Radio-TV-Film.

Minor—Journalism: Eighteen hours including JOUR 111, 212, 334 and CRTF 225, 226, with a minimum of six hours in upper division Journalism courses.

BACHELOR OF SCIENCE DEGREE IN PUBLIC RELATIONS

Major: Forty-five hours including CRTF 101, 225, 226, 312, 313, and 418; JOUR 111, 212, 315, 334, 427, 435, and 495; SPCH 135, 136, and 319; and a three-hour Communication elective. Cognate requirements: BUAD 326, in addition to those listed for the B.A. degree (above). Recommended are design (ART 109, 110), Art and Ideas (HMNT 205), and appropriate classes in history, political science, and literature.

Intended to prepare the student for a career in public relations in institutions or business firms, this degree program provides a background in public relations, journalism, print communication, public speaking, audio and video, and interpersonal communication.

ASSOCIATE OF SCIENCE DEGREE IN MEDIA TECHNOLOGY

This two-year curriculum is especially designed for the technically oriented student interested primarily in the production and operational aspects of media. Students completing this degree can continue and complete a baccalaureate degree in Communication (Radio-TV-Film emphasis) without loss of educational time.

Major: Thirty hours including CRTF 101, 112, 217, 225, 313, 418, plus five hours in departmental electives; INDS 145, 274; CPTR 120, 125, or 127 (or 105, 106, and 107); LIBR 333; with general education courses to meet CATALOG requirements and sufficient electives to make a total of 64 semester hours. Cognate requirement: ENGL 102.

Radio Station

Communication students at Southern College have opportunities for realistic learning experiences in connection with the college radio station, WSMC FM90.5, and those who include Radio-TV-Film courses in their preparation are encouraged to participate in the many aspects of its total program.

College Publications

The journalistic output of the Public Relations office of the college, the editing of the Associated Press broadcast wire service copy in addition to gathering and writing local news for WSMC FM90.5 and the Student Association publications—*Campus Chatter*, *Southern Accent*, *Southern Memories*, and *Joker*—all provide students with varied opportunities to put journalistic principles into practice.

On-the-Job Training in Journalism, Public Relations, and Radio-TV-Film

A program of journalism and public relations on-the-job training for

selected communication majors has been developed. This program (which has been approved by the General Conference of Seventh-day Adventists) calls for a student to associate with a church publishing house or an educational or medical institution for an arranged period working directly with the institution in its editing, publishing, or public relations activities. A scholarship is provided for the student and a proportionate amount of academic credit is available in JOUR 495.

A program of broadcasting and audio-visual media on-the-job training is also available. This program calls for a student to associate with a commercial or noncommercial broadcasting or production organization for an arranged period, working directly with professionals in various phases of radio or TV station operation or production. A scholarship is occasionally provided for the student and a proportionate amount of academic credit is available in CRTF or JOUR 495.

RADIO-TV-FILM

CRTF 101. Audio Production I (G-2) 1 hour

Operation of mixing consoles, tape recorders, turntables, microphones, etc., focusing on the basic audio production techniques of mixing, recording, and editing. Meets two hours each week for lecture and demonstration during the first half of each semester. Reservations for two hours per week of individual control room practice and production time made at registration. Supplies fee \$7.00. (Fall, Spring)

CRTF 112. Audio Production II (G-1) 1 hour

Prerequisite: CRTF 101. (CRTF 112 follows CRTF 101 the second nine weeks of each semester.)

Advanced editing and mixing, multi-channel recording, microphone placement for music, signal processing, analyzing audio, audio dramas, film sound-tracks, etc. Meets two hours weekly for lecture and demonstration during second half of semester. Two hours per week of individual studio production time arranged. Supplies fee \$7.00. (Fall, Spring)

CRTF 217. Radio Station Operations 2 hours

Prerequisite: Current or previous enrollment in CRTF 101.

A laboratory course where the student becomes familiar with the day-to-day operations of a radio station. The course covers control room procedures, announcing, production, automation, teletype, copy editing, traffic, music programming, etc. Taught in conjunction with WSMC FM90.5. (Spring)

CRTF 225. Introduction to Photography (G-1) 2 hours

Standardized procedures for camera and meter use, film exposure and development, negative enlargement and print finishing, and basic lighting and composition. Students must have their own 35mm camera with adjustable f-stops and shutter speeds. One hour of lecture, three hours of laboratory each week. Supplies made available to class members at cost, approximately \$50. (Fall, Spring, Summer)

CRTF 226. Survey of Mass Communication (F-2) 3 hours

A study of the communication process in the mass communication industries of modern society, with special consideration of the Christian segment of society, both as consumers and dispensers of information. Each student will establish criteria for his own choices from among products of the mass media. Supplies fee \$10.00. (Spring)

CRTF 312. Advanced Photography (G-1) 2 hours

Prerequisite: CRTF 225 or equivalent.

Advanced photographic techniques in camera handling, composition, exposure, and developing with special emphasis on creativity, darkroom techniques, and preparation for exhibit and publication. Students must have their own camera with adjustable f-stops and shutter speeds. One hour of lecture, three hours of laboratory each week. Supplies made available to class members at cost, approximately \$75. (Fall, Spring)

CRTF 313. Television Production 3 hours

Prerequisites: CRTF 101 and 225.

Camera, switcher, special effects generator, and videotape recorder operation. Elementary TV lighting, scripting, production and direction. Study of TV graphics, picture composition, and storyboard preparation. Two hours of lecture and three hours of laboratory each week. (Spring)

CRTF 314. Writing For Radio-TV (W) 3 hours

Prerequisites: CRTF 101, 112, 313, and SECR 105 or equivalent.

Emphasis on writing news for broadcast and persuasive spot announcements: commercials, religious spots, and public service announcements. May apply on Journalism emphasis. Supplies are made available to students at cost. (Spring)

CRTF 414. Advanced TV Production 3 hours

Prerequisite: CRTF 313.

Writing, producing, and directing video productions of various types, utilizing both single camera with post-production editing, and multi-camera production in real-time. Advanced students provide leadership for beginning TV students. Two hours lecture and three hours lab each week. Supplies fee, \$15. (Spring)

CRTF 418. Multi-Image Production 3 hours

Pre- or Co-requisite: CRTF 101 and 225.

Instruction in conceptualizing, formatting, scripting, visual composition, taking and developing color transparencies; titling and graphics, making a synchronized sound track, plus programming and operation of dissolve units and slide projectors. Goal: Creation of projector slide shows using 1-6 projectors. Supplies made available to class at cost (approximately \$50 per student). (Fall)

CRTF 295/495. Directed Study 1-4 hours

Four types of options are offered: 1) As demand is developed for certain specialized class instruction, the topic to be offered in a given term will be publicized prior to registration. 2) Individual projects in various aspects of communication on an independent study basis may be arranged. 3) This

course provides opportunity, among other options, for on-the-job training. 4) This course also includes credit offered by the Communication Department on directed study tours. Proposals must be submitted to the Division Chairman for approval before registering. Course may be repeated. Up to four hours may apply on a Communication major or minor. (Fall, Spring, Summer). See also JOUR 295/495. (See page 69).

JOURNALISM/PUBLIC RELATIONS

JOUR 111. News Reporting **3 hours**

Prerequisite: ENGL 102, and SECR 105 or equivalent.

Practice in newswriting and general reporting of church, school, and community affairs for the public press. Study is given to the duties of the reporter in newsgathering and to his relationship to editorial requirements. (Fall, Summer)

JOUR 212. News Editing **2 hours**

Prerequisite: JOUR 111.

Instruction is given in copy editing, headline writing, layout, and other editorial responsibilities through the various phases of newspaper production from copy to final print form. (Spring)

JOUR 315. Layout and Design of Publications **3 hours**

Prerequisite: INDS 145.

Editorial techniques and problems from the arrival of the manuscript in the editor's office until the publication reaches the reader. Relationships with authors, manuscript handling, payment, layout and illustrations; relationships with art, composing, proofreading, and press rooms; circulation and distribution problems as they affect the editor. (Fall)

JOUR 316. Magazine Article Writing (W) **3 hours**

Prerequisite: ENGL 102, and SECR 105 or equivalent.

Preparation and marketing of feature and religious articles for newspapers and magazines, market analysis, writing for specialized markets. (Spring)

JOUR 334. Public Relations **3 hours**

Designed to give professional competence in the theory and practice of public relations, the course is a study of the plans and methods of disseminating information from business establishments and from institutions through all the media of communication. (Fall)

JOUR 427. Communication Law **3 hours**

The nature and social functions of the major forms of communication laws and regulations and especially as pertains to the mass media: libel, slander, copyright, FCC and FTC Rules and Regulations, etc. This course may apply to the Radio-TV-Film emphasis. (Spring, odd years)

JOUR 435. Case Studies in Public Relations **3 hours**

Prerequisite: JOUR 334.

An examination of the characteristics of successful public relations campaigns. Emphasis is given to public relations planning and evaluating, as

well as to advanced techniques in news publicity, controlled media publicity, and media relations. Professional practitioners frequently lecture as guest specialists. (Spring, even years)

JOUR 295/495. Public Relations Practicum-Internship **1-4 hours**

Students work full time at a journalistic, public relations, or broadcasting enterprise. Students must apply to the employing organization and (for 3 credits) be accepted to work for ten weeks under the direction of a professional. Grading is by a departmental instructor based on a daily journal and on evaluation by the professional. Requirements for enrollment include adequate background, at least junior standing, and consent of the instructor. (Fall, Spring, Summer). See also CRTF 295/495. (See page 67).

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) **2 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. (Fall, Spring)

SPCH 236. Oral Interpretation (D-4) **2 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. (Fall, Spring)

SPCH 319. Communication Theory (W) **3 hours**

Prerequisites: SPCH 135 and ENGL 102.

Introducing the study of communication transactions in all arenas— intrapersonal, interpersonal, small group, public speaking, and mass media—this course gives attention to models of communication and to the psychology, sociology, semantics, and ethics of the communication process. This course may apply to the Journalism minor. (Fall)

SPCH 295/495. Directed Study **1-4 hours**

See 295/495 listings under CRTF and JOUR. (Fall, Spring, Summer)

(D-4), (G-1), (G-2), (W) See pages 14-16 for explanation of General Education requirements.

COMPUTER SCIENCE

John Beckett, B.A.
Lawrence Hanson, Ph.D.
Timothy Korson, M.S., *Chairman*
Merritt MacLafferty, M.A.

Computer Science deals with the control programs that govern the behavior of modern digital computers. In modern society, it is rare that a day passes without the average person interacting, in some way, with computers. From the tiny microcomputers that govern the fuel consumption of automobiles to the huge machines that process the millions of transactions in the marketplace, the computer has become an inseparable part of modern life.

With the burgeoning use of computers, however, comes the alarming fact that there will continue to be a shortage of computer professionals. Formerly, companies were willing to hire and train applicants with minimal formal computer knowledge. In today's high technology society, however, employers expect applicants to already possess substantial skills and knowledge, such as are gained by earning a B.S. degree in Computer Science at Southern College. Once an individual has acquired these skills, the opportunities in industry, education, and research are excellent.

The Southern College graduate will be well qualified to assume the responsibilities of an entry level programmer. Furthermore, he will have the training necessary for career advancement into positions such as Data Base Administrator, Systems Analyst, Systems Programmer, Team Leader, and Data Processing Administrator.

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.

BACHELOR OF SCIENCE DEGREE IN COMPUTER SCIENCE

Major: Forty hours consisting of CPTR 127, 131, 132, 217, 219, 317, 318, 319, 323, 409 or 410, 485 and nine hours of computer electives, three of which must be upper division. Cognates required: MATH 114, 215 or BUAD 313, 334.

Those electing a B.S. in computer science will recognize that they need an area of application and should thus plan substantial course work in another area, e.g., business, psychology, mathematics, or physics. To be well prepared for an immediate job, a double major should be considered.

BACHELOR OF ARTS DEGREE IN COMPUTER SCIENCE

Major: Thirty hours consisting of CPTR 127, 131, 132, 217, 219, 317, 318, 319, 323, 485 and two hours of upper division computer electives. Cognates required: MATH 114, 215 or BUAD 313, 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.

ASSOCIATE OF SCIENCE DEGREE IN COMPUTER SCIENCE

Major: Twenty-four hours in computer science consisting of: CPTR 127, 131, 132, 217, 219, 317, 318, 319. Cognates required: ACCT 121, 122, 321; BUAD 334.

Students planning to do graduate work in computer science or desiring a more technical program should consult a computer science teacher as early as possible.

CPTR 105. 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. This course does not apply on a major and may not be taken for credit if credit has been received for CPTR 127. (Spring)

CPTR 106. Financial Applications (G-2) 1 hour

The use of spreadsheet software on a microcomputer as an aid to financial planning and management. This course does not apply on a major and may not be taken for credit if credit has been received for CPTR 127. (Spring)

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

A course using microcomputers as electronic filing cabinets. Information retrieval, report generation, adding, deleting, and updating information. This course does not apply on a major and may not be taken for credit if credit has been received for CPTR 127. (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 125. BASIC Programming Language (G-2) 3 hours

An introduction to the BASIC programming language. The student will be introduced to proper techniques of program design, coding, documentation and testing of the computer. No prior knowledge of data processing or computer programming is required. This course does not apply on a major. (Fall, Spring)

CPTR 127. Micro Tools (G-2) 3 hours

A hands-on course designed for those who anticipate using a micro in their place of employment. Software packages in database management, spreadsheet analysis, and word processing will be covered as well as basic hardware concepts and common terminology. No student may receive credit for CPTR 105, 106, or 107 if he has credit for CPTR 127. (Fall)

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

Control structures, data types, data representation, compiling, debugging, modularity, and standard programming algorithms are introduced via Pascal. (Fall, Spring)

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 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 hierarchy 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. (Fall)

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, programming techniques, and recent developments in computing. Several computer projects to illustrate basic machine structure and programming techniques. (Spring)

CPTR 250. RPG II 3 hours

Prerequisite: CPTR 131.

Editing data, control breaks, computation, files, records, comparing records, matching records, exception reports, array and table processing, and sequential and indexed sequential file processing in RPG II. (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 using COBOL. (Spring)

CPTR 318. Data Structures 3 hours

Prerequisites: CPTR 132, MATH 114.

Stacks, recursions, queues, lists, trees, graphs, sorting and searching. (Fall)

CPTR 319. Data Base Management Systems 3 hours

Prerequisites: CPTR 318, 217.

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

CPTR 323. Structured Systems Analysis and Design 3 hours

Prerequisite: CPTR 319 or 317.

System development life cycle, system documentation through the use of both classical and structured tools/techniques for describing process flows, data flows, file designs, input and output. Logical design of processes and databases. Structured techniques for dealing with complexity in the development of computer based information systems. Issues in implementation, testing, project management. (Spring)

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)

CPTR 370. Introduction to IBM Software 3 hours

Prerequisite: CPTR 319.

An introduction to some of the software tools available in the IBM environment. (Spring)

Computer Science

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CPTR 405. Organization of Programming Languages 3 hours

Prerequisites: CPTR 131, 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 409. Software Development Internship 3 hours

Prerequisites: CPTR 323 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)

CPTR 410. Applied Software Development Project 3 hours

Prerequisite: CPTR 323.

Students will be involved in a semester-long programming project starting with information requirements analysis and ending with testing and installation. (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. (Fall)

CPTR 290/490. 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 division head.

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 14-16 for explanation of General Education requirements.

EDUCATION

Ben Bandiola, Ph.D.
Melvin Campbell, Ph.D.
Gerald Colvin, Ed.D., Ph.D.
Desmond Rice, Ed.D., *Associate Chairman*
Cyril Roe, Ed.D., *Chairman*
Jeanette Stepanske, M.A.

Methods Teachers and Student Teacher Supervisors: Education faculty, Joyce Cotham, Thelma Cushman, Charles Davis, Robert Garren, Floyd Greenleaf, Wayne Janzen, Robert Kamieneski, Robert Moore, Robert Morrison, Helmut Ott, Marvin Robertson, David Smith, Ron Springett.

The teacher education programs are founded upon a liberal arts demand for breadth and depth of knowledge and experience and on the idea that a teacher should be a good example in health, intellect, and character.

The Education program offers courses leading to the Bachelor of Science in Elementary Education with an optional endorsement for kindergarten teaching. Furthermore, in cooperation with other subject areas, the following secondary certification programs are available: Art, Bible, Business (Office Administration), English, Foreign Languages, Health and Physical Education, History, Home Economics (non-vocational SDA only), Industrial Education, Mathematics, Music, and Science (Biology, Chemistry, and Physics). It must be noted that the above endorsements are under review and may be modified.

Tennessee endorsement for School Librarian is available to all certified teachers.

The National Teachers Examination (NTE) is required for certification. It is necessary that teacher education students apply at the Testing and Counseling office to take the core battery and specialty areas of this examination during the last semester of the senior year.

Accreditation

Southern College's programs in teacher education are approved by the Tennessee State Board of Education, the Department of Education of the General Conference of Seventh-day Adventists, the American Association of Colleges for Teacher Education, and the National Council for Accreditation of Teacher Education (NCATE).

Southern College's teacher education programs prepare the individual for certification to teach in North American Seventh-day Adventist schools and public schools.

The student who completes Southern College's approved program and is recommended for certification will have indicated on the tran-

script that his program was NCATE approved. This recognition makes certification in many states much easier.

Each student will be responsible for determining additional courses required for certification in any state he desires such recognition.

Application for state and denominational certification is made through the Teacher Certification Officer in the Department of Education. *To be eligible for certification the teacher education student must always meet the most current Tennessee certification requirements.*

Aims

Courses in Education are offered to provide the necessary professional preparation to meet certification requirements for public and church-related kindergarten, elementary, and secondary classroom teaching, to afford a general understanding of the school as a social institution for those entering services other than teaching, and to serve as preparation for graduate programs.

Requirements

The criteria for admission to Teacher Education, outlines of teaching majors in secondary education, and policies and procedures related to student teaching may be obtained from the Department secretary in Summerour Hall. Outlines of courses of teaching majors in secondary education are also listed in the CATALOG under the respective academic divisions.

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. 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.
- 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 State Board of Education. Inquiries concerning this test may be made with the Department secretary in Summerour Hall or at 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 2.25.
 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.
 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.

II. ADMISSION TO PROFESSIONAL SEMESTER

- A. A formal application must be filed with the Department 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 culmination of the Teacher Education program.
 2. Elementary education applicants must have a grade point average of at least 2.5 in the professional core and a 2.25 grade point average in required non-major subjects. Secondary teacher education applicants must have a minimum grade point average of 2.5 in the professional core subjects and a minimum grade point average of 2.5 for subject area endorsements both overall and at SC.
 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. The student will be informed in writing as to his status in the teacher education program.

III. RETENTION IN THE TEACHER EDUCATION PROGRAM

- A. The progress of each prospective teacher 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 Vice President for Academic Administration 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.

BACHELOR OF SCIENCE DEGREE IN ELEMENTARY EDUCATION

Major: Forty-one hours including EDUC 125, 134, 217, 230 or 231, 240, 332, 333, 356, 427, 443, 453, 454, 455, 456, 457, 467. Cognate requirements include HLED 203; GEOG 204; LIBR 325; ENGL 218.

Teaching Endorsements—Elementary Education Majors:

- A. Kindergarten: Students desiring a kindergarten endorsement must include in their program of studies EDUC 426, 466, and PSYC 128.
- B. School Librarian: Students certifying in elementary education may receive the School Librarian Tennessee endorsement by including in their program of studies 18 hours of Library Science, LIBR 125, 226, 314, 325, 333, 416, 425.

Professional Semester: One semester of the senior year is a professional semester. Its required curriculum includes the following:

First part of the semester:

EDUC 356 Tests and Measurements 2 hours

EDUC 427 Current Issues in Education	2 hours
EDUC 443 Classroom Competencies	3 hours

Second part of the semester:

EDUC 467 Student Teaching	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.

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:

A. Basic Academic Skills

College Composition 101:102	6 hours
Mathematics	6 hours

B. Religion 12 hours

Christian Beliefs 155, Adventist Heritage 238 and 6 hours of RELB.

C. History/Political Science/Economics

American History 154, 155	6 hours
World Geography 204	3 hours

D. Language/Literature/Fine Arts

Listening to Music 115 and Art Appreciation 218 or Humanities 205	3-5 hours
Literature	6 hours
Speech	3 hours

E. Science

Biology	4 hours
Chemistry or Physics	4 hours
Earth Science	4 hours

F. Behavioral and Family Science

Intro to Sociology 125 or Family Relations 365	3 hours
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Health and Life 173	2 hours
Safety Education 203	2 hours

G. Skills

Library Materials for Children 325	3 hours
Physical Education activity courses	4 hours
Physical Education in the Elem. Sch. 463	2 hours

SECONDARY EDUCATION TEACHING CERTIFICATE

1. Professional Education Requirements: 26 semester hours.

The following are required courses:

A. Must be taken prior to admission into Teacher Education Program.

EDUC 125 Foundations of Education	3 hours
EDUC 134 Principles of Christian Education	2 hours

B. 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 432 Reading in the Secondary School	2 hours

C. To be taken during the professional semester.

EDUC 356 Tests and Measurements	2 hours
EDUC 427 Current Issues in Education	2 hours
EDUC 437 Curriculum and General Methods	2 hours
EDUC 438 Special Methods Grades 7-12	2 hours
EDUC 468 Student Teaching Grades 7-12	6 hours

In addition to the above, all English majors seeking secondary education endorsement will be required to take EDUC 332 or 333.

All students seeking certification in Religion must take Special Methods of Teaching Bible (EDUC 438) regardless of whether they have other special methods courses.

Students who are planning to be dormitory deans are advised to take EDUC 355 and EDUC 415.

All candidates for a teaching certificate are required to take the core battery and the appropriate specialty area of the National Teacher Examination, usually in their senior year.

In order to meet Seventh-day Adventist certification requirements for secondary teaching the student must also take in addition to the above:

RELB	Biblical Studies	6 hours
RELT 255	Christian Beliefs	3 hours
RELT 138	Adventist Heritage	3 hours
HLED 173	Health and Life	2 hours

2. 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 1C above should be taken in the following sequences:

First part of the semester:

EDUC 356 Tests and Measurements	2 hours
EDUC 427 Current Issues in Education	2 hours
EDUC 437 Curriculum and General Methods	3 hours
EDUC 438 Special Methods Grades 7-12	2 hours

Second part of the semester:

EDUC 468 Student Teaching Grades 7-12 (full day)	6 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.

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 on the following pages) 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 hours
EDUC 333, Developmental Reading	2 hours
EDUC 453, Mathematics Methods in the Elementary School	2 hours
EDUC 454, Science and Health Methods in the Elementary School	2 hours
EDUC 455, Bible Methods in the Elementary School	2 hours
EDUC 456, Language Arts Methods in the Elementary School	2 hours
EDUC 457, Social Studies Methods in the Elementary School	2 hours

B. Four semester hours to include two of the following three areas:

EDUC 230, Elementary Methods in Curriculum and Instruction: Art	2 hours
EDUC 231, Elementary Methods in Curriculum and Instruction: Music	2 hours
PETH 463, Physical Education in the Elementary School	2 hours

C. Two semester hours must be in Survey of Exceptional Children if not previously successfully completed. If Survey 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 | c. Health |
| b. Tennessee History | 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.
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 SC'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 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.

ASSOCIATE OF SCIENCE DEGREE IN CHILD CARE ADMINISTRATION

Major: Twenty-five hours including EDUC 125, 134, 230 or 231; 275; FDNT 126, 127; HLED 203; HMEC 201, 202; HMEC 146 or BUAD 128; PSYC 128; general education and other electives to make a total of 64 semester hours.

Child Care Administration A.S. degree requirements in general education:

- A. *Basic Academic Skills:* 9 hours
ENGL 101, 102
MATH 103
- B. *Religion:* 6 hours
RELT 255
RELT 238
- C. *History:* 6 hours
HIST 154, 155, or GEOG 204
- D. *Language, Literature, Fine Arts:* 6 hours
ENGL 213, 214, 215, or 216
- E. *Natural Sciences:* 6-8 hours with lab, with two areas represented below: Biology, Chemistry, or Physics electives with lab.
- F. *Behavioral, Family, Health Sciences:* 3 hours
(Plenty with 24-hour major) plus HLED 173
- G. *Activity Skills:* 3 hours
(FDNT 126, 127 already required)

Montessori Option: Child Care Administration majors may earn an additional Child Care Certification by selecting the Montessori option. Students selecting this option will substitute EDUC 284 and EDUC 285

for EDUC 125 and EDUC 134. The Montessori Methods courses will be taught off campus by a certified Montessori instructor and include a paid practicum.

COURSES IN 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 divisions 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. (Only two hours credit available if the student already has credit for EDUC 123.) (Fall, Spring)

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. (Not open to students who already have credit for EDUC 133.) (Fall, Spring)

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.

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. (Fall, Spring, alternate Summers)

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 exceptional-ity, the identification of exceptional children and youth by the classroom teacher and the consequent classroom implications. (Fall, Spring, alternate Summers)

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.

EDUC 275. Child Care Practicum 2 hours

Prerequisite: EDUC 125, 134, 217, 240; HLED 173, 203; BUAD 128.

The student devotes at least 80 hours of on-the-job practice under the supervision of a certified elementary education director. Experiences should include: registration and advertising, program design and management, budgeting, preschool instruction, and parent consultation.

EDUC 284:285. Montessori Methods I and II 2,2 hours

A detailed study of the Montessori philosophy, materials, and activities. This course is taught in a Montessori School off campus by a certified Montessori instructor and includes a paid practicum. Students must pass a written exam and correctly demonstrate the use of Montessori materials as part of the final exam.

Both sections should be completed satisfactorily for Montessori Certification.

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. (Fall)

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.) (Spring)

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. (Fall, Spring)

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. (Fall, Spring)

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. (Fall, Spring)

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. (Fall, Spring)

EDUC 438. Special Methods of Teaching, Grades 7-12 2 hours

Prerequisite: Admission to Teacher Education. Course 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, Industrial Arts, Mathematics, Music, Science (Biology, Chemistry, and Physics).

The course will be offered the first half 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. (Fall, Spring)

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. (Fall, Spring, Summer on demand)

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. (Spring, Summer on demand)

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. (Fall, Summer on demand)

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 class-

rooms. Observation and micro-teaching required. (Fall, Summer on demand)

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. (Spring, Summer on demand)

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. (Fall, Summer on demand)

EDUC 466. Student Teaching, Kindergarten **2-4 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. (Fall, Spring, Summer)

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 the first half of the semester. A weekly seminar is held in the first nine weeks of the semester.

The second half 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. (Fall, Spring)

EDUC 468. Student Teaching, Grades 7-12 **6 hours**

Prerequisite: EDUC 217, 437, 438, and admission to professional semester. Music majors must have completed MUPF 479.

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. These hours will count toward the required student teaching allotment. One-half semester of full time directed observation, participation and full-day classroom teach-

ing is 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. (Fall, Spring)

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. (Summer)

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. (Summer)

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. (Fall, Spring, Summer)

(F-1), (W) See pages 14-16 for explanation of General Education requirements.

ENGLISH

Ann Clark, M.A.T.
 Jan Haluska, M.A.
 Wilma McClarty, Ed.D.
 Barbara Ruf, Ph.D., *Chairman*
 David Smith, M.A.

The English Department offers two categories of classes that view man's search for truth and its most convincing expression through a Christian perspective. *Language* 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 16-21). For English and most other programs in the Humanities Division, intermediate foreign language is required.

Some English majors elect a year of study at England's Newbold College, because of its proximity to numerous sites of literary and historical importance.

BACHELOR OF ARTS IN ENGLISH LANGUAGE AND LITERATURE

Major: 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. Required cognates: HIST 374, HMNT 205, intermediate foreign language.

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.

Minor in Fields Related to English Education (*Available only to English Majors*): Eighteen hours including LIBR 125; HIST 374; SPCH 135, 236; JOUR 111; and four (two upper division) hours from the following electives: PSYC 124; SECR 105, 115, or 214; EDUC 333; any Communication course; any Library Science course.

Teaching Endorsement: The following are the minimum requirements.

ENGL 218	Principles of Grammar	2 hours
ENGL 315	Introduction to Linguistics	2 hours
Two of the following three:		6 hours
ENGL 214	Survey of American Literature (3)	

ENGL 333	American Literature: Colonial through Romantic Periods (3)	
ENGL 334	American Literature: Realism to the Present (3)	
ENGL 215	Survey of English Literature	3 hours
ENGL 314	Creative Writing	3 hours
One of the following three:		3 hours
ENGL 336	Medieval and Renaissance Literature (3)	
ENGL 337	Nineteenth Century British Literature (3)	
ENGL 444	Restoration and Eighteenth Century Literature (3)	
ENGL 445	World Literature	3 hours
LIBR 425	Library Materials for Young Adults and Adults	2 hours
One of the following two:		2 hours
EDUC 332	Teaching of Reading (2)	
EDUC 333	Developmental Reading (2)	
EDUC 432	Reading in the Secondary School (2)	2 hours
TOTAL		28 hours

Students anticipating secondary teaching should meet state certification requirements (see Secondary Education requirements under DEPARTMENT OF EDUCATION), should consider taking a minor in Fields Related to English Education, and should obtain experience working on the *Southern Accent* staff, *Southern Memories* staff, and/or a programs committee of one of the student organizations.

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.

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, Spring)

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

The content of this course will be adjusted to meet the particular needs of the student, including requests for credit for such activities as projects done during student missionary terms. This course also includes credit offered by the English Department on directed study tours. Open only to students approved by the division director in consultation with the prospective instructor.

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 types 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. (Fall, Spring, and usually Summer)

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.

The study and appreciation of selected works, with special emphasis on literary terms and on the critical qualities that distinguish such basic literary types as the short story, the drama, the novel, and the poem. (Fall)

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. (Spring, even 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. (Spring, odd years)

ENGL 335. Biblical Literature (D-2), (W) 3 hours

A survey of the Bible's literary masterpieces from an archetypal perspective. The Bible is viewed as one story, the double quest: man, searching for a lost Eden, and Christ, the great Questor, seeking the restoration of His world and His family. This story, reinforced by its central theme of redemption and by the universal archetypal symbols centering in Christ the Word made flesh, actually permeates all imaginative literature. Biblical genres studied include the story of origins, heroic narrative, epic, idyl, lyric poetry, wisdom literature, gospel, 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, even years)

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. This course may be taught only alternate years. (Fall)

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. This course may be taught only alternate years. (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. This course may be taught only alternate years. (Fall)

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. Students desiring a complete sequence in world literature may follow this course with MDLG 304. (Fall)

ENGL 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 division director in consultation with the prospective instructor.

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 14-16 for explanation of General Education requirements.

HEALTH, PHYSICAL EDUCATION, AND RECREATION

Ted Evans, M.Ed.
Philip Garver, M.S.
Steve Jaecks, M.S.
Robert Kamieneski, Ed.D., *Chairman*

The courses in Health, Physical Education, and Recreation propose to acquaint students with principles of healthful living, to help each student develop physical efficiency through participation in supervised activity, to develop wholesome recreational habits by helping the student acquire interest, knowledge, and skills in several recreational activities, and to contribute to preparation for a career in health, physical education, and recreation.

BACHELOR OF ARTS DEGREE IN HEALTH, PHYSICAL EDUCATION AND RECREATION

Major: Thirty hours including HLED 314, 315; PETH 121, 122, 221, 222, 265, 266, 363, 364, 495; and excluding HLED 203. Required cognates: BIOL 105, 106.

No general education activity courses, except PEAC 255, Water Safety Instructor, may apply on the major. *Competency required in PEAC 143, Beginning Tumbling and PEAC 254, Lifesaving.*

Skill deficiencies in each PETH 121, 122, 221, or 222 activity unit will be indicated by grade of C- or less. Deficiencies for these units must be met by taking for no credit the corresponding general education activity course.

Intramural participation is recommended.

Majors training for teaching positions must meet the NCATE certification requirements set forth by the Division of Education and Human Sciences.

Minor: Eighteen hours including PETH 121, 122, 221, 222, 265, 266, 364.

BACHELOR OF SCIENCE DEGREE IN HEALTH SCIENCE

Major: Forty-five hours including HLED 314, 315, 373, 470, 473; PETH 374, 495; PEAC 125; CHEM 151:152; MATH 215; BIOL 105, 106, 125; FDNT 125.

Teaching Endorsement, Grades 1-12:

HLED 173	Health and Life	2 hours
HLED 373	Care and Prevention of Athletic Injuries	2 hours
HLED 314	Kinesiology	4 hours

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HLED 315	Physiology of Exercise	4 hours
PETH 364	Principles and Administration of Physical Education and Recreation ..	3 hours
PETH 463	Physical Education in the Elementary School	2 hours
PETH 265, 266	Officiating Sports Analysis	4 hours
PETH 121, 122; 221, 222	Professional Skills courses	8 hours
	TOTAL	29 hours

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.

GENERAL EDUCATION ACTIVITY COURSES

- PEAC 123. Volleyball (G-3)** **1 hour**
Development of skills necessary for enjoyable and successful play. (Spring, Fall)
- PEAC 124. Basketball (G-3)** **1 hour**
Team activity skills developed that may be used in the individual's leisure time. (Fall)
- PEAC 125. Conditioning (G-3)** **1 hour**
The learning of basic training and aerobic principles followed by a personal long-range conditioning program. May be repeated for credit.
- PEAC 126. Softball (G-3)** **1 hour**
Development of skills necessary for enjoyable and successful play. (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**
Activities with emphasis on recreational carry-over values. (Fall, Spring)
- PEAC 134. Basic Tennis (G-3)** **1 hour**
Basic tennis skills including the strokes, rallying, and volleying. (Fall)
- PEAC 136. Basic Golf (G-3)** **1 hour**
A basic course for the beginning golfer; includes use of all clubs and course play. (Fall)
- PEAC 137. Cycling (G-3)** **1 hour**
Emphasizing various types of cycling, repairs, and safety factors. Students are to provide their own bicycles. (Spring)

PEAC 138. Intermediate Golf (G-3) 1 hour
Play on a variety of courses for the bogie golfer. (Spring)

PEAC 139. Intermediate Tennis (G-3) 1 hour
For the advanced player with emphasis on playing strategy, doubles, and mixed doubles. (Fall)

PEAC 143. Basic Tumbling (G-3) 1 hour
Mat tumbling leading to gymnastic free-exercise routines. (Fall, Spring)

PEAC 144. Basic Apparatus (G-3) 1 hour
Basic skills emphasized on trampoline, 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 fees in addition to tuition. Lab fee required. (Fall, Spring)

PEAC 153. Basic Swimming (G-3) 1 hour
Both beginning and intermediate swimming, and aquatic safety skills will be included. (Fall, Spring, Summer)

PEAC 243. Tumbling Team (G-3) 1,1 hour
Admission will be based on satisfactory performance of try-out requirements for team membership. (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)

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-\$75.

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)

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HLED 203. Safety Education (F-3) 2 hours

The nature and causes of accidents, safety measures for the prevention of common accidents of the home, school, industry, transportation, and recreation. The standard and advanced Red Cross Certificates will be issued to those completing the required work in first aid. (Fall)

HLED 314. Kinesiology 4 hours

Prerequisite: BIOL 105, 106 or equivalent.

A study of the anatomical and mechanical variables influencing movement, including adaptive activities for the handicapped person. (Fall)

HLED 315. Physiology of Exercise (W) 4 hours

Prerequisite: BIOL 105, 106 or equivalent.

Emphasizing the physiological effects of muscular exercise, massed gymnastics, and physical conditioning. Significance of these effects for health and for skilled performance. (Spring)

HLED 373. Care and Prevention of Athletic Injuries 2 hours

Prerequisite: HLED 314.

The study of treatment and prevention of athletic injuries. (Spring, even years)

HLED 470. Current Issues in Health 2 hours

This course emphasizes lifting the Great Healer through health ministry. Principles found in the Bible and Spirit of Prophecy are used as the basis for optimum health habits. Learning of health for an evangelistic tool and for optimal personal health are the two-fold objectives for the course. (Spring)

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, 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, gymnastics, conditioning, recreational activities, track and field. Taught in alternate years for HPER majors and minors only. (Fall, Spring)

PETH 261. Introduction to Recreation (G-3) 2 hours

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, Physical Education and Recreation

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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. (Spring)

**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. (Fall)

PETH 374. Motor Learning and Development 2 hours

The course based on physical anthropometrics and the neurological development of the child, adolescent related to his motor behavior. Taught in alternate years. (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)

PETH 490. Senior Seminar (W) 2 hours

An exploration of philosophical and historical contributions to the field. 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. (Fall)

PETH 295, 495. Directed Studies (W) 1-3 hours

An introduction to research and discussion on problem areas in the discipline. Limited to Physical Education majors. Writing emphasis credit for PETH 495 only. (Fall, Spring, Summer)

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 survey and evaluation of textbooks. The first half of the first semester during the senior year. (Fall)

(F-3), (G-3), (W) See pages 14-16 for explanation of General Education requirements.

HISTORY

Floyd Greenleaf, Ph.D.

Benjamin McArthur, Ph.D.

William Wohlers, Ph.D., *Chairman*

History is the study of the human experience. It investigates mankind's ideas, institutions, and accomplishments. In examining the reasons for mankind's experience, history courses at Southern College emphasize the Christian view of humanity. The Christian concept of human nature recognizes both the potential and the limitation of human endeavor and thereby permits broader comprehension of the past and present, and 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.

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. Students planning to teach

must follow procedures spelled out by the Education Department for admission into the teacher education and student teaching programs.

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 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. Survey of Civilization (C-1) 3,3 hours

An introductory consideration of the ancient, classical, and medieval contributions to our own civilization and a consideration of modern and current developments. This course is recommended as general education for freshmen and sophomores. (Fall, Spring)

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. Minorities in America (C-1), (W) 3 hours

A view of American minorities with particular emphasis on their history, changing problems, and current relationship to American life. Special attention is devoted to the American Black.

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)

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. Foundations of Modern Culture: Europe in the Middle Ages and Renaissance (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 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 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 389. Vienna to Vietnam (C-2), (W) 3 hours

See HIST 389 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

This course is open only to those students who have spent a minimum of six months in residence in a country other than the United States, or its Administrative Territories. It is understood that students may not write about their native land or a country in which they have lived for a long period. The credit will be earned by the presentation of an essay with supporting materials. The class is under the jurisdiction of the World Geography teacher. The course is non-repeatable. One-third regular tuition rate.

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.

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 14-16 for explanation of General Education requirements.

HOME ECONOMICS

Thelma Cushman, M.A., *Chairman*

Roy Dingle, A.S.

Earl Evans, B.S.

Diane Fletcher, M.A.

Home Economics programs are designed to prepare men and women for careers dealing with home and family life, food and nutrition, textiles and clothing, 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 Home Economics profession.

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

All Home Economics programs are planned with a member of the Home Economics 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 SCIENCE DEGREE IN HOME ECONOMICS

Home Economics can complement other disciplines. The following academic combinations are possible: Home Economics and Business for a career as a *home economist in business*; Home Economics and Social Work for a career in *gerontology*; Home Economics and Education for a *teaching career*; Home Economics and Child Care for a career in *day care supervision*; Home Economics and the sciences for *pre-professional preparation for medical school*. Employment opportunities abound for those who pursue advanced degrees in one of the areas of Home Economics.

Major: Forty hours including FDNT 125, 126, 127, 317, 325; HMEC 146, 147, 148, 164, 165, 166, 201, 202, 349, 415, 485. Cognate requirements: PSYC 124; HLED 203.

Home Economics majors and candidates for secondary certification are encouraged to attend two approved professional meetings each semester.

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

Minor—Foods and Food Service: Eighteen hours including six hours of upper division.

Teaching Endorsement Requirements:

Foods and Nutrition courses	8 hours
Textiles and Clothing courses including HMEC 315 ...	8 hours
Home Management courses including HMEC 146	8 hours
Total 24 hours	

Before the end of the sophomore year, the student must apply to the Division of Human Development for admission to the Teacher Education Program. Before the end of the junior year, the student must apply to the Division of Human Development for admission to the professional semester. Read carefully the instructions after EDUC 134 on page 84.

BACHELOR OF SCIENCE DEGREE IN FOOD SERVICE ADMINISTRATION

(Pending approval of the Board of Higher Education)

The purpose of the four-year bachelor of science in food service administration is to provide the student with advanced skills in institutional food service including supervision and administration. A minor in Business Administration is required for this degree.

Major: Fifty-two hours including FDNT 111, 112, 113, 114, 125, 126, 127, 129, 219, 220, 239, 317, 325, 328; BUAD 355; FDNT 415; HMEC 495; FDNT 497. Cognate requirements: CPTR 120, BIOL 125, PSYC 124 or 128.

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.

ASSOCIATE OF SCIENCE DEGREE IN HOME ECONOMICS

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 Home Economics.

Major: Twenty-four hours including courses FDNT 125, 126, 127, 317; HMEC 146, 147, 148, 165, 201, plus electives to make a total of 24 hours in Home Economics; HLED 203; general electives to make a total of 64 semester hours.

Home Economics majors and candidates for secondary certification are encouraged to attend two approved professional meetings each semester.

ASSOCIATE OF TECHNOLOGY DEGREE IN FOOD SERVICE

The purpose of the two-year associate of technology program is to provide the student with advanced skills in institutional food service production operations including management of special functions.

Major: Thirty-seven hours including FDNT 111, 112, 113, 114, 125, 126, 127, 129, 219, 220, 239, 317. Cognate requirements: HMEC 146 or BUAD 128; SPCH 136; PSYC 124 or 128. General education requirements include: ENGL 101, general education math requirements, six hours B-1 or B-2, and electives for a total of 64 semester hours. Work experience in the food service and/or bakery is required.

CERTIFICATE PROGRAM IN FOOD SERVICE PRODUCTION

The purpose of the one-year certificate program is to provide the student with the basic production skills necessary for institutional food service. Course requirements are FDNT 111, 112, 113, 114, 127, 129, HMEC 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.

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 6,6 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. Three 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, Spring)

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)

FDNT 129. Institutional Baking Techniques **3 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 five hours of laboratory each week. (Fall)

FDNT 151. Creative Cuisines **1 hour**

An introductory laboratory course in food preparation. Emphasis will be on practical cookery for today's lifestyle. The course will include microwave cooking; baking, including whole wheat and fancy breads; preparation of convenience and manufactured foods; and preparation of vegetarian entrees, utilizing unprocessed foods available in the supermarket. NOT available to majors. (Spring, Summer)

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

Prerequisites: FDNT 111:112, 113:114.

Lecture and experience in recipe development, menu planning, and management of banquets and special functions. One hour of lecture and five hours laboratory each week. (Fall, Spring)

FDNT 239. Advanced Institutional Baking Techniques **3 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 five hours of laboratory each week. (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 328. 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)

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

Prerequisites: FDNT 219, 220, 239, 317, 315, 328.

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

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FDNT 497. Internship in Food Service Administration 4 hours

Prerequisites: FDNT 219, 220, 317, 325, 328, 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)

HOME MANAGEMENT

HMEC 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)

HMEC 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)

HMEC 148. Orientation to Home Economics 1 hour

Orientation in the areas of Home Economics and a study of the field in terms of history, philosophy, and professional opportunities. (Spring, odd years)

HMEC 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)

HMEC 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)

HMEC 225. Life Skills 2 hours

A basic course presenting a variety of skills necessary for successful living in today's world. NOT available for Home Economics majors and minors. (Fall)

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

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

HMEC 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)

HMEC 354. 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. (Spring)

HMEC 415. Practicum in Home Management 2 hours

Prerequisites: Twenty hours in Home Economics including HMEC 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 division office one semester in advance. (Spring)

TEXTILES AND CLOTHING**HMEC 164. Textiles (G-2)** 3 hours

A study of basic fibers and fabrics including properties, construction, selection, uses, and care. Three lectures per week. (Fall)

HMEC 165. Basic Clothing (G-2) 2 hours

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

HMEC 166. Intermediate Clothing (G-2) 2 hours

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

HMEC 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)

HMEC 315. Pattern Design 3 hours

Prerequisite: HMEC 165 or approval of instructor.

Clothing design and practice in creating designs through flat pattern and draping techniques. Two lectures and three hours of laboratory each week. (Spring, odd years)

HMEC 316. Tailoring for Men and Women 3 hours

Prerequisite: HMEC 165 or approval of instructor.

Evaluation and use of various tailoring methods as applied in selection, fitting and construction of tailored garments. (Fall, odd years)

HMEC 345. Upholstery and Drapery (G-2) 3 hours

Laboratory experience in simple upholstering and professional drapery making. Two three-hour combined lecture and laboratory periods. There will be a fee for supplies. (Spring, even years)

HMEC 485. Home Economics Seminar (W) 2 hours

Prerequisite: Twenty hours completed in Home Economics.

Recent trends in Home Economics and related professional fields. Required of and limited to majors. (Spring, odd years)

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HMEC 295/495. Directed Study

1-3 hours

To permit the advanced student majoring in Home Economics to do individual work in the field under the direction of a staff member. By divisional 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 14-16 for explanation of General Education requirements.

INDUSTRIAL EDUCATION

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John Durichek, M.A.

Francis Hummer

Wayne Janzen, Ed.D., *Chairman*

Industrial Education is a broad term used to describe a variety of learning activities that have as their core material conversion into usable products and the design, use and development of techniques that permit energy and power to be effectively utilized. The programs below develop the knowledge by which this information is conveyed from conception to implementation.

Southern College Industrial Education classes may be used to earn a trade competency certificate, an Associate of Science degree or a Bachelor of Science degree. Many classes serve to enrich the curricula of other disciplines.

BACHELOR OF SCIENCE DEGREE IN INDUSTRIAL EDUCATION

Major: Forty-eight hours including (a) INDS 145, 149, 154, 174, 184, 265, 274, 275, 314, 324, 325; ART 104; seven hours of electives, and (b) the courses listed below for an Industrial or Secondary Teaching emphasis. Cognate requirements are CHEM 111, MATH 104, and PHYS 107.

Secondary Teaching Emphasis—INDS 415 and 485, plus the 24 semester hours of professional education subjects required to meet the NCATE-approved program for certification.

Industrial Emphasis—INDS 176. This program prepares students for employment in fabricating and manufacturing industries and plant and institutional maintenance. The student will be proficient in several areas upon completion of the program.

Minor: Eighteen hours including six hours upper division.

Teaching Endorsement:

Teaching endorsements are granted by the state to those who complete additional courses beyond the following classes: INDS 149, 325, 274, 145, 174, 154, 265 and ART 104.

Drafting

Drafting endorsement requires 2 hours Woods, Metals, or Industrial Crafts elective.

Industrial Arts

Industrial Arts endorsement requires 4 hours Woods, Metals, or Industrial Crafts elective.

Metals

Metals endorsement satisfied by INDS 314 which is required.

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Power Mechanics

Power Mechanics endorsement requires 4 hours Woods, Metals, or Industrial Crafts elective.

Woods and Construction

Woods and Construction endorsement requires 2 hours Woods elective plus 2 hours Woods, Metals, or Industrial Crafts elective.

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.

ASSOCIATE OF SCIENCE DEGREE IN INDUSTRIAL TECHNOLOGY

This two-year curriculum is designed for those who would like a broad background in materials and processes of industry with an emphasis towards plant and institutional maintenance. The requirements are as follows: INDS 154, 174, 175, 176, 184, 265, 274, 275, 278, 314. Cognates: Six hours to be chosen from PHYS 107, MATH 104, and CHEM 111.

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. Tuition for this one-year program will be \$2,000 (nonrefundable).

Students must receive approval of the department for admission into this program. See the department chairman for the special cost of the Auto Body Repair.

The requirements are as follows: INDS 110, 112, 114, 116, 118, 120, 265; three hours from B-1 or B-2 courses..

INDUSTRIAL EDUCATION

INDS 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)

INDS 112. Painting and Refinishing

6 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)

INDS 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)

INDS 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)

INDS 118. Collision Repair II **4 hours**

Continuation of experience in collision repair, emphasizing body alignment, frame straightening, glass work, fiber glass repair, and body section replacement. There is no lecture component to this class, but rather is composed of four 3 period labs per week. (Spring)

INDS 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)

INDS 145. Graphic Arts (G-2) **4 hours**

Special emphasis is given to offset methods of copy preparation, camera techniques, platemaking and press work. Basic instruction in screen printing is also included. A supplies fee will be charged for projects produced in class. Average cost of projects approximately \$50.

INDS 149. Engineering Graphics (G-2) **3 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 (also used for INDS 325). (Spring)

INDS 154. Woodworking (G-2) **4 hours**

A study of hand and machine tools, joinery, and proper methods of furniture construction. Two periods 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, Spring)

INDS 155. Creative Crafts (G-2) **2 hours**

A study of various craft area associated with materials such as plastics, wood and metal. Silk screening and other graphic techniques are included. Project costs variable but approximately \$35. (Fall, Spring)

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INDS 174. General Metals (G-2) 4 hours

Designed to acquaint the student with the many aspects of the metal working industry. Instruction will be given in the areas of forging, foundry, heat treatment, sheet metal, welding, plus hand- and power-operated metal-cutting equipment. Two periods lecture and six periods laboratory each week. Project expenses average \$100. Each student must purchase his own safety glasses, welding gloves and goggles. (Fall)

INDS 175. Refrigeration and Air Conditioning (G-2) 3 hours

Fundamental principles of refrigeration and air conditioning. Emphasis will be placed on troubleshooting and servicing of both domestic and commercial units. One period lecture and six periods laboratory each week. Optional tool expense of \$25 to \$30. (Spring)

INDS 176. Electric and Oxy-Acetylene Welding (G-2) 3 hours

A very practical course in arc and acetylene welding, teaching the student to weld skillfully in all positions: flat, vertical, and overhead. In addition, the student will learn to use the Tig and Mig industrial welders. One period lecture and six periods laboratory each week. Safety glasses and gloves cost approximately \$25. (Fall, Spring)

INDS 177. Electrical Wiring (G-2) 3 hours

A study of wiring procedures approved by the National Electrical Code. This course is designed to prepare the student for the licensure examination. Two periods lecture and three periods lab per week. (Spring)

INDS 184. Industrial Safety Education 1 hour

This course covers the major areas of industrial safety. It is not a study of safety rules, rather an overview of the social, physiological and philosophical approach toward safety in industry. (Fall)

INDS 219. Offset and Quick Print Operation 2 hours

This course is designed to prepare the student to work in a quick print business operation by operating equipment typical of large corporation in-house printing systems.

INDS 264. Car Care (G-2) 2 hours

A course designed to help the car owner become knowledgeable in matters of car care and operation. Does not apply toward a major or minor. One period lecture and three periods laboratory each week. (Fall)

INDS 265. Automotive Fundamentals (G-2) 4 hours

A course designed to give basic understanding of the automobile. Main emphasis is given to power plant and drive train design, operation, and service. Two periods lecture and six periods laboratory each week. Each student is expected to supply his own basic hand tools and coveralls. Tools may be rented or purchased from the department. (Minimum tool set costs

approximately \$200.) All lab learning experiences are on actual cars either from the community or personal vehicle. (Fall, Spring)

INDS 274. Electricity/Electronics (G-2) 4 hours

A basic course in the principles of electricity and electronic circuitry—D.C. and A.C., with emphasis on resistors, capacitors, diodes, transistors, vacuum tubes, amplifiers, and oscillators. Two periods lecture and six periods laboratory each week. Variable project expense involved. (Fall)

INDS 275. Machine and Tool Maintenance 2 hours

A study of the principles and methods of machine repair and preventative maintenance of equipment found in an industrial shop. The time will be divided between metalworking and woodworking equipment. One period lecture and three periods laboratory each week. Taught in alternate years. (Fall)

INDS 278. Plant Maintenance 6 hours

This course will include two periods of lecture per week dealing with such areas as: plumbing, carpentry, electrical wiring and heating systems, etc. Laboratory experience will entail working with a tradesman in each of the above areas. Twelve periods of laboratory per week. One-third regular tuition rate. (Spring)

INDS 314. Machine Shop 4 hours

Prerequisite: INDS 174 or permission of instructor.

A course designed to provide in-depth experiences in the use of metal machinery and fabrication equipment. Provision is made for extensive personal or large group produced projects. Two periods lecture, six periods laboratory each week. A 1½ ton floor jack will be built as the beginning project which costs approximately \$125. Other project expenses are variable.

INDS 315. Offset Lithography 3 hours

An advanced study of graphic communications which will give the student actual operating experience with process cameras, darkroom techniques, stripping, plate making, contacting, and a variety of offset press equipment. One period lecture and six periods laboratory each week. A supplies fee will be charged. Taught in alternate years. (Spring)

INDS 317. Engine Rebuilding 2 hours

Prerequisite: INDS 265 or equivalent.

This course is designed to provide experience in internal combustion engine overhaul. Each student will individually remove from car, overhaul, and re-install one engine. Six periods of laboratory including individualized instruction. Taught in alternate years. (Fall)

INDS 318. Automotive Tune-up 3 hours

Prerequisite: INDS 265.

Automotive troubleshooting and tune-up. Course emphasis directed to-

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wards the automobile electrical and fuel system. One period lecture and six periods laboratory each week. (Spring)

INDS 323. 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. Preference 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)

INDS 324. Manufacturing Processes (W) 3 hours

A study of manufacturing processes and management. Students will simulate line production, visit area manufacturers, and do individual research projects. (Fall)

INDS 325. Architectural Drafting (G-2) 3 hours

A study of architectural details and methods of construction relative to frame and masonry veneer residential dwellings. Emphasis is placed on residential planning and design principles. Each student will design and draw all details necessary in the construction of a home. Six periods laboratory each week. Lectures as announced by the instructor. Instruments cost approximately \$50 (also used for INDS 149). (Fall)

INDS 354. Furniture Construction 3 hours

Prerequisite: INDS 154.

Emphasis will be placed on construction of a piece of furniture of the student's choice. Two periods lecture and six periods laboratory each week. Students must underwrite the costs of materials. Taught in alternate years. (Spring)

INDS 415. Laboratory Operation and Supervision 2 hours

A course designed for students planning to be instructors. It will provide experiences such as tool maintenance, materials purchasing, project evaluation, and student assistance. This course must be preceded by completion of basic courses in each content area, such as drafting, graphic arts, woods, metals, and mechanics. Each student, in counsel with the instructor, will decide in which of three areas he will divide his time. One period lecture, three periods laboratory each week. Taught in alternate years. (Spring)

INDS 485. Seminar 1 hour

A discussion of problems related to the industrial education teaching profession. One period discussion each week. Open only to Industrial Arts majors. (Spring)

INDS 295/495. Directed Study 1-3 hours

The study of a specific problem in the field of Industrial Education. A written report of the problem may be required by the supervising instructor. Open only to Industrial Education majors and minors. Offered on demand. (Fall, Spring)

EDUCATION

EDUC 438. Methods of Teaching Industrial Arts 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 first semester during the senior year. (Fall)

(G-2), (W) See pages 14-16 for explanation of General Education requirements.

Reference	LIBR 125
Libraries and Librarianship	LIBR 226
Statistics and Classification	LIBR 214
Library Materials for Children and Young Adults	LIBR 202
Instructional Media	LIBR 232
School Library Media Center	LIBR 416
Administration	
Library Materials for Young Adults and Adults	LIBR 202
TOTAL 18 hours	

LIBR 125. Reference (G-2) 3 hours
Presents basic concepts, selection and use of general and specialized reference material for all levels of school libraries. Useful for the general student who desires to know better to use the library. Required for all student assistants working in McKee Library. (Fall)

LIBR 226. Libraries and Librarianship 2 hours
Introduces the aspects of the library profession and the areas of service of

LIBRARY SCIENCE

Peggy Bennett, M.S.L.S.

Loranne Grace, M.L.S.

Patricia Morrison, M.L.S.

Minor: Eighteen hours.

A school librarian K-12, Tennessee endorsement is available to certified teachers who complete the 18 hours of Library Science provided by this minor.

Teaching Endorsement: If a student meets the requirements for a first teaching field he may add the following endorsement by meeting the number of hours indicated below.

LIBR 125	Reference	3 hours
LIBR 226	Libraries and Librarianship	2 hours
LIBR 314	Cataloging and Classification	3 hours
LIBR 325	Library Materials for Children	3 hours
LIBR 333	Instructional Media	2 hours
LIBR 416	School Library Media Center Administration	3 hours
LIBR 425	Library Materials for Young Adults and Adults	2 hours
TOTAL		18 hours

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. Read carefully the instructions after EDUC 134 on page 84.

Schedule of Course Offerings:

	86	86-87	87	87-88	88	88-89
	Summer		Summer		Summer	
1st	314	125	226	125	314	125
Sem.	325	314	325	226	416	226
	333					
2nd	416	325		325		325
Sem.		333		425		416
		416				

LIBR 125. Reference (G-2) 3 hours

Presents basic concepts, selection and use of general and specialized reference material for all levels of school libraries. Useful for the general student who desires to know how better to use the library. Required for all student assistants working in McKee Library. (Fall)

LIBR 226. Libraries and Librarianship 2 hours

Introduces the aspects of the library profession and the areas of service of

various types of libraries. Develops the career possibilities of librarianship. (Fall)

LIBR 314. Cataloging and Classification 3 hours

Prerequisite: LIBR 125, 226.

Examines the basic concepts and strategies for instituting and operating the cataloging area of the school library or media center. Involves the student in the basic methods of cataloging, classification, and other technical procedures integral to the retrieval of information. (Fall)

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 416. School Library Media Center Administration 3 hours

Prerequisites: LIBR 125, 226, 314.

Presents the basic concepts and organizational procedures for the administrative personnel of the school library or media center so that this resource will become involved with the total program of the school. (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 reading that can enthusiastically involve both young adults and adults. (Spring)

(G-2) See pages 14-16 for explanation of General Education requirements.

MATHEMATICS

Lawrence Hanson, Ph.D., *Chairman*
 Robert Moore, M.S., *Study Leave*
 Art Richert, Ph.D.

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.

BACHELOR OF SCIENCE DEGREE IN MATHEMATICS

Major: Forty hours including MATH 317, 318, 319, 411, 412, and 485. Cognate requirements are CPTR 218; PHYS 211:212, 213:214.

BACHELOR OF ARTS DEGREE IN MATHEMATICS

Major: Thirty hours including MATH 318, 319, 411, 412 and 485. CPTR 218 is a cognate requirement. For those with two majors or secondary certification the only prescribed upper division course requirements are MATH 318 and 411.

Minor: Eighteen hours including MATH 115 and six hours of upper division courses.

Teaching Endorsement: In addition to meeting the requirements for a first teaching field, the student may add the following endorsement by meeting the number of hours indicated below:

MATH 114	Elementary Functions and Relations	. 4 hours
MATH 115	Calculus I 4 hours
	Math elective credit including	
	six hours numbered 300 or above	.. 10 hours
		TOTAL 18 hours

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 84 between EDUC 134 and 217.

MATH 099. Basic Mathematics (A-2)

Non-Credit

This course concentrates on the skills of arithmetic and beginning algebra and their application to everyday life situations. Calculated as 1 hour for determining class loads. Students with ACT mathematics standard score of 12 or above are exempt from this course. There is a \$50 charge for this course. (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, Summer)

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. (Fall, Spring, Summer)

MATH 114. Elementary Functions and Relations (A-2)

4 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. Only two hours apply toward a major in mathematics. (Fall, Spring)

MATH 115. 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 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.

Elementary probability; organization and analysis of data; the binomial, normal, student's t , and chi-square distributions; sampling; hypothesis testing; nonparametric statistics; regression and correlation; analysis of variance. (Fall, Spring)

MATH 216. Set Theory and Logic

2 hours

Prerequisite: MATH 115.

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 217. Calculus II **3 hours**

Prerequisite: MATH 115.

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. (Fall)

MATH 218. Calculus III **3 hours**

Prerequisite: MATH 217.

Algebraic operations or vectors, multiple integrals, vector calculus including Green's theorem, Stokes's theorem, and the divergence theorem. (Spring)

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 217.

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)

MATH 319. Linear Algebra **3 hours**

Prerequisite: MATH 115, 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. Advanced Calculus **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 115, 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 485. Mathematics Seminar (W) **1 hour**

Prerequisite: Permission of Mathematics staff.

Written and oral reports are made on a variety of topics in mathematics and current literature. May be repeated for credit. (Fall, odd years)

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

Prerequisite: Approval by division faculty.

Individual reading and problem solving in a field chosen in consultation with an instructor. (On demand)

EDUCATION

EDUC 438. Methods of Teaching Mathematics and Physics **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 14-16 for explanation of General Education requirements.

MODERN LANGUAGES

Robert Morrison, Ph.D., *Chairman*

Helmut Ott, Ed.D.

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.

Students whose mother tongue is a language other than English and who wish to major in their native language obviously begin with certain basic skills already achieved. These skills are reasonably expected to be at least equivalent to the intermediate level. Such students will be asked to demonstrate these skills through a qualifying examination which, when successfully completed, will constitute a waiver of the six intermediate credits. These six credits are to be replaced by three hours of advanced English grammar (ENGL 218) and three hours from Masterpieces in Translation (MDLG 304), American or English literature, or American history. The foreign language major for students majoring in their mother tongue may thus be considered to consist of 30 hours but to include a substitution of six hours.

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, Collonges-sous-Saleve; and in Spain, Colegio Adventista de Sagunto, Sagunto.

Students participate in the ACA program to obtain such goals as a language major with a speaking proficiency; a language minor with a speaking proficiency; general education credit, especially in such fields as history, humanities, religion, art, and music in an overseas setting;

broader perspectives through foreign travel and experience, without loss of academic time; foreign study at reasonable cost; and insights into the global nature of the Seventh-day Adventist Church.

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.

Needed for admission to the ACA program are:

1. Admission as a regular student at Southern College.
2. Competence in the language. (The intermediate level is recommended; one year in college or two in secondary school may sometimes be accepted.)
3. A record free from academic and citizenship probation.
4. The special ACA application form, submitted to the Admissions Office.
5. Compliance with the financial requirements. (See page 224. Costs, including transportation, are comparable to those at Adventist colleges in the United States.)

The University of Montemorelos. By arrangement with the University of Montemorelos in Nuevo Leon, students may apply for an intensive summer course in Spanish in Mexico. An academic-year program is also available to a limited number of students. Credit for both plans is variable.

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, especially in French and German, students are expected to earn a large portion of their major through ACA or the Montemorelos affiliation. Students not interested in foreign study are referred to the International Studies major (below).

Minor—French, German or Spanish: Eighteen hours excluding course 101:102 but including course 211:212 and six hours of upper-division courses. Because advanced courses in French and German are not at present offered on the Southern College campus, the student desiring a minor in French or German must plan either a year in the ACA program or 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

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language and literature within a framework of international cultural dimensions. Such a program is sometimes considered a "humanities major." Only a Spanish emphasis is at present available on the Southern College campus. The French or German emphasis, however, may be available to ACA students who complete sufficient language, culture and literature courses 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
SPAN (or GRMN or FREN) 344 — Composition and	
Conversation	3 hours
SPAN (or GRMN or FREN) 354 — Culture and Civilization	
ENGL 445 — World Literature	3 hours
MDLG 304 — Masterpieces in Translation	
ART 344 (or MUHL 115) — History of Art	
(or Listening to Music)	3 hours
HIST 386, 389 (or 354) — Foundations of Modern Culture	
or Vienna to Vietnam (or History of Latin America)	3 hours
Additional hours from language and literature, world geog-	
raphy, a second foreign language, or ART 344 or MUHL 115	
(whichever is not taken above)	6 hours*

*Students desiring certification in Spanish, French or German must take these six hours in that language.

TOTAL 30 hours

Teaching Endorsement:

1. For students with successful completion of 2 years Foreign Language study in high school:
 - a. One language endorsement—a minimum of eighteen hours in that language.
 - b. Two or more foreign languages—a minimum of thirty semester hours with a minimum of twelve semester hours in each of the languages.
2. For students with no evidence of two years of high school credit:
 - a. One language endorsement—a minimum of twenty-four hours in that language.
 - b. Two or more foreign languages—a minimum of eighteen semester hours in each of the languages.

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.

SPECIAL COURSES

MDLG 304. Masterpieces in Translation (D-2) 3 hours

A survey of great literary works from France, Germany, Spain, and Spanish America, from the seventeenth century to modern times. Students desiring a complete survey of world literature may first enroll for ENGL 445, World Literature, which covers the centuries up to the seventeenth. Applies toward general education requirements in literature but not toward the major in French, German or Spanish. (Spring, even years)

MDLG 295/495. Directed Study 1-6 hours

The content of this course will be adjusted to meet the particular needs of the individual student. 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.

FRENCH

FREN 101:102. Elementary French (D-1) 3,3 hours

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 even years; 212, Spring odd years.)

GERMAN

GRMN 101:102. Elementary German (D-1) 3,3 hours

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.)

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RUSSIAN

RUSS 101. Elementary Russian **3 hours**

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 Russian.)

SPANISH

SPAN 101:102. Elementary Spanish (D-1) **3,3 hours**

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).

SPAN 344. Composition and Conversation (D-1), (W) **3 hours**

Prerequisite: SPAN 211:212 or equivalent.

Development of skill in speaking, understanding, and writing idiomatic Spanish. (Open to Spanish or Latin-American nationals only by permission of instructor. Fall, odd years)

SPAN 354. Hispanic Culture and Civilization **3 hours**

Prerequisite: SPAN 211:212 or equivalent.

Backgrounds of the social, religious, political, economic, artistic, and intellectual scene in the Spanish-speaking world. (Fall, even years)

SPAN 365. Spanish Linguistics **3 hours**

Prerequisite: SPAN 211:212 or equivalent. Recommended: SPAN 344.

Introduction to the morphological, syntactic, and phonemic structure of the Spanish language. Practice in sounds, intonation, and transcription; remedial pronunciation drills. The course includes a brief survey of the history of the language. (Spring, odd years)

SPAN 376. Masterpieces of Spanish Literature (D-2) **3 hours**

Prerequisite: SPAN 211:212 or equivalent.

History and development of Spanish literature; reading of representative works. No credit allowed if SPAN 336 credit has been awarded. (Spring, odd years)

SPAN 436. Masterpieces of Spanish-American Literature (D-2)

3 hours

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Prerequisite: SPAN 211:212 or equivalent.

History and development of Spanish-American literature; reading of representative works. (Spring, even years)

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 14-16 for explanation of General Education requirements.

MUSIC

J. Bruce Ashton, D.M.A.
Orlo Gilbert, M.Mus. Ed.
Judith Glass, M.Mus.
Marvin L. Robertson, Ph.D., *Chairman*
Don Runyan, Ph.D.
Patricia Silver, M.A.

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 thirteen 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.

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 2.0 for the Bachelor of Arts degree and 2.25 for the Bachelor of Music degree.
- b. A grade point average of 2.5 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 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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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 155, 238	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 314, 315	History of Music	8 hours
MUPF 477	Instrumental Conducting Techniques	3 hours
MUPF 478	Choral Conducting Techniques	3 hours
MUPF 313	Orchestration & 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	<u>4 hours</u>
TOTAL	33 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	<u>1 hour</u>
TOTAL	33 hours

- *1. Organ majors must take two hours of MUPF 279, *Service Playing*, in lieu of two hours of MUPF 289.
- *2. Piano majors may take two hours of MUPF 378, *Instrumental Ensemble Experience (Accompanying)*, in lieu of two hours of MUPF 389.

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	<u>1 hour</u>
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
		<u>22 hours</u>

MUSIC EDUCATION

MUED 439	Pre-Student Teaching Seminar	1 hour
MUED 231	Music Methods in Elementary School Pedagogy, or Materials and Methods .	<u>6 hours</u>
		7 hours

BACHELOR OF ARTS DEGREE IN MUSIC

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

Major: Forty hours including fourteen upper division hours and the following:

Music Theory including MUCT 111:112; 121:122; 211:212; 221:222	19 hours
MUHL 314:315 — History of Music to 1750/1750 to Present	8 hours
MUPF 189, 389 — Concentration	8 hours
Music Ensembles	5 hours

A student must complete all general education requirements of the College.

The foreign language recommended is either French or German.

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 179 — Concentration	2 hours
MUPF 477 or 478 — Instrumental or Choral Conducting Techniques	3 hours
Music Course Electives (including three hours upper division)	<u>4 hours</u>
	18 hours

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)
- 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. (Spring)
- 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)
- 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 314. History of Music to 1750 (D-3), (W)** **4 hours**
 Prerequisite: MUHL 115, MUCT 111:112, or permission of instructor.
 A study of music literature from antiquity to 1750 including cultural backgrounds, development of music form and style, and analysis of representative masterworks from each major period of music history. A unit of non-Western music is also included. Two listening periods per week are required. (Fall: even numbered years)
- MUHL 315. History of Music, 1750 to Present (D-3), (W)** **4 hours**
 Prerequisite: MUHL 115, MUCT 111:112 or permission of instructor.
 A study of music literature from 1750 to the present, including cultural backgrounds, development of music form and style, and analysis of representative masterworks from each major period of music history. Two listening periods per week are required. (Spring: odd numbered years)

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 179 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 is required. (Fall: odd numbered years)

MUED 317. Voice Pedagogy 2 hours

Prerequisite: Two hours of MUPF 179 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 is required. (Spring: odd numbered years)

MUED 318. Organ Pedagogy 2 hours

Prerequisite: Two hours of MUPF 179 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 is 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. (Fall, Spring, Summer)

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. (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 vocal problems. Experience in conducting choral 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 College Concert Choir or Chamber 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. I Cantatrici Ladies' Chorus (G-1) 1 hour

A female-voice choir which performs music of all styles and style periods.

MUPF 148/348. Chamber Singers (G-1) 1 hour

A mixed-voice choir which performs choral music appropriate to the Chamber Choir.

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 College Concert Choir (G-1) 1 hour

A 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)

Music

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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 14-16 for explanation of General Education requirements.

NURSING

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Catherine Knarr, M.S.N., *Chairman***Collegedale**

Colleen Barrow, B.S.
 Ruby Birch, M.S.N.
 Susan Davidson, B.S.
 Betty Garver, M.S.N.
 Dorothy Giacomozzi, M.S.
 Leona Gulley, M.H.Sc.
 Kathy Hammond, B.S.
 Dorothy Hooper, M.S.
 Shirley Howard, M.S.N.
 Bonnie Hunt, M.S.N.
 Beth Jedamski, B.S.
 Marie Krall, B.S.
 Katie Lamb, M.S.N.
 Terri Martin, B.S.
 Caroline McArthur, M.S.
 Laura Nyirady, M.S.N.
 Charlene Robertson, M.S.N.
 Frances Robertson, B.S.
 Patsy Rushing, B.S.
 Lola Scoggins, M.P.H.
 Elvie Swinson, M.S.
 Nancy Thiel, B.S.

Orlando

Flora Adams, B.S.
 Nancy Crist, B.S.
 Deborah Edgerton, B.S.
 Flora Flood, M.S.N.
 Johanna Neubrandner, B.S.
 Hazel Rice, Ed.S.
 Cheryl Thompson, M.S.N.
 Erma Webb, M.S.
 Marlene Young, M.S.N.

PHILOSOPHY

God is the One in whom we live and move and have our being. In the beginning when God created man in His image it was His purpose that man should throughout his life ever more fully reveal the image of his Creator. But sin brought about in man feelings of distrust of his fellow-man and of God, and a great sense of personal insecurity. Sin also weakened his physical powers, lessened his psychosocial capacity, and dimmed his spiritual vision. Man then became subject to various health problems. Those health problems have created a need for intervention from the health-related professions.

Nursing as a health profession is a progressive science and art, utilizing knowledge from many physical and psychosocial disciplines in assisting individuals and groups to solve health problems. While nursing shares with other health care providers the goals of maintaining and promoting optimal health, it is unique in that it provides for the activities of daily living through its nurturing role and coordinates the health care according to observations of behavioral response of the patient/client. Nursing also includes preventive and creative roles in meeting the needs of the whole individual. The nurse can most effec-

tively fill these roles through a consistent relationship with Christ which enables the nurse to assist others to live, move, and have being (Acts 17:28).

As the roles of the nurse have become more complex, the differentiation of responsibilities of nurses has created a need for nursing personnel with different levels of preparation. The implication for nursing education is that it must provide curricula to educate a clearly defined practitioner on each level of practice. To meet this need, students in the articulated baccalaureate program receive an associate of science degree after the second year with the option to halt their education or continue upper division nursing. The person who exits at this level will primarily provide nurturing and coordinating aspects of nursing in a circumscribed setting. This nurse will apply the nursing process in assessing the level of wellness of the patient/client using predetermined criteria and techniques, will plan and implement predetermined interventions, and will function in predetermined leadership roles. These roles will include management of care for groups of patient/clients and direction of auxiliary personnel.

In a variety of settings the baccalaureate graduate will provide preventive, creative, coordinative, and collaborative aspects of nursing. The nurse practicing at this level will act as a change agent utilizing the research orientation to the nursing process which includes the systematic gathering of data, considering alternatives, implementing predetermined and/or creative interventions, evaluating outcomes, and assuming accountability for actions. On completion of the program the graduate will have competence in a variety of practice settings and beginning expertise in at least one area. The graduate will be equipped to move quickly into beginning leadership roles and will have the theory and practice base in behavioral and physical sciences for graduate study in nursing.

DESCRIPTION OF PROGRAM

The articulated program 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 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 skills laboratory are provided to assist students in learning experiences. One semester of lower division is spent at the Orlando Center.

COLLEGEDALE-BASED ASSOCIATE AND BACCALAUREATE PROGRAMS

The students are based on the Collegedale campus with one semester of the lower division spent at the Orlando Center.

The curriculum in the upper division provides the student an in-depth study in clinical nursing in addition to prescribed courses. All students will be required to participate in validation procedures designed to evaluate and improve the individual student and the program of study.

A new class begins in lower division each semester with a limited size of 60 students due to available clinical facilities and teachers. The upper division class is not limited in size and a new class is admitted each semester.

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 is 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 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 division. 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 bulletin section Admissions, Expenses and Financial Aid).

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 accredited by the National League for Nursing to admit registered nurse students to the curriculum. 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.

BACHELOR OF SCIENCE DEGREE IN NURSING

Major: Thirty-seven hours for the Bachelor of Science degree after completion of the Associate of Science degree at Southern College or the equivalent* including NRSG 324, 325, 327, 335, 387, 389, 394, 425, 484, 485. Required cognates: RELT 373, CHEM 111, 203, and three hours upper-division Behavioral Science. BHSF 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, three hours Area D, and elective credit 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 72 semester hours will be accepted from a junior college.

ASSOCIATE OF SCIENCE DEGREE IN NURSING

Major: Thirty-five hours for the Associate of Science degree including NRSG 105, 116, 117, 215, 216, 217, 218, 223. Required cognates: BIOL 105, 106, 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 68 semester hours is required for the Associate of Science degree.

LOWER DIVISION ADMISSION AND PROGRESSION REQUIREMENTS

Admission and progression requirements are the same for both Collegedale- and Orlando-based programs. Minimum requirements for admission to the clinical area of the Division of Nursing are listed below. The final decision on acceptance and continuation in nursing is made by the Division of Nursing. Declaration as a nursing major is not the equivalent of acceptance to the Division 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 chemistry. A student who does not meet the high school chemistry requirement may remove this deficiency by taking CHEM 111 and earning a "C" or better.
4. Minimum ACT standard score of 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 twelve semester college hours in required courses leading to nursing, with a current and cumulative grade point average of at least 2.50* 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 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, Sociology, and Introduction to Psychology [for Orlando-based program only]).
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* 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 Nsg 223, Nsg-Seminar) will result in delay in graduation and the writing of the N-CLEX-RN examination.

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 licensed practical nurse or ex-Army medic may challenge Basic Nursing I, NRSG 105. Arrangements to challenge must be made with the coordinator of the first year of the program. Challenge involves clinical and theory evaluation.

The following should be sent to the Director of Admissions by March 1 for the fall class and by October 15 for the winter class: (1) application to the College, (2) application to the Division of Nursing, (3) transcripts, (4) ACT scores. 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.

*On a 4.00 scale

CURRICULUM (First and Second Year)

Completion of these requirements leads to an Associate of Science degree and eligibility to sit for state board examinations.

COLLEGEDALE-BASED PROGRAM

Number of Hours Required:

Nursing 35	Natural Science 12
Behavioral Science 6	General Education 15

Sample Sequence:

		1st Sem	2nd Sem
Summer			
BIOL 105	Anatomy	3	
First Year			
BIOL 106	Physiology	3	
PSYC 128	Developmental Psychology		3*

FDNT 125	Nutrition	3	
NRSG 105	Basic Nursing I	5	
NRSG 116	Basic Nursing II		5**
NRSG 117	Basic Nursing II		5**
ENGL 101	College Composition	3	
RELT	Religion	3*	
ENGL 102	College Composition		3*
	TOTAL	17	16

Summer

NRSG 215	Basic Nursing III	4	
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Second Year

BIOL 125	Microbiology	3	
RELT	Religion		3
NRSG 216	Basic Nursing III	4	
NRSG 217	Basic Nursing III	4	
NRSG 218	Basic Nursing IV		7
SOCI 125	Sociology	3	
HIST	Area C-1***		3
NRSG 223	Nursing Seminar		1
	TOTAL	14	14

*Offered in Collegedale and Orlando.

**Offered only in Orlando.

***A European history course must be taken if World History was not taken in high school.

NRSG 050. Nursing Therial Course (non-credit) 6 hours

This course is designed to review and consolidate theoretical and clinical components of the first two years of the nursing program. The experiences focus upon medical-surgical, obstetrical, mental health, and the nursing of children. The student is expected to perform satisfactorily on examinations and in the clinical area following each rotation. Failure to meet the requirements in any rotation results in termination from the nursing program.

NRSG 105. Basic Nursing I: Foundations 5 hours

Prerequisite: Chemistry (high school or equivalent).

Co-requisites: FDNT 125, BIOL 106.

This course is an introduction to the physical, psychosocial, and spiritual aspects of health care. The student develops an understanding of the roles of the nurse, utilizes the nursing process, and acquires basic nursing skills common to all areas of nursing with an emphasis on gerontology (three hours theory, two hours clinical). (Fall, Spring)

NRSG 116. Basic Nursing II: Medical-Surgical 5 hours

Prerequisite: BIOL 105, FDNT 125, NRSG 105.

Must meet college math requirements.

This course provides students with the theory and practice of nursing in dealing with 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). (Fall, Spring)

NRSNG 117. Basic Nursing II: The Childbearing Family **5 hours**

Prerequisite: BIOL 105, FDNT 125, NRSNG 105.

Must meet college math requirements.

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 (three hours theory, two hours clinical). (Fall, Spring)

NRSNG 215. Basic Nursing III: Parent-Child **4 hours**

Prerequisite: PSYC 128; NRSNG 116, 117; BIOL 106.

Co-requisite: BIOL 125.

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, Spring, Summer)

NRSNG 216. Basic Nursing III: Medical-Surgical **4 hours**

Prerequisite: NRSNG 116, 117; BIOL 106, PSYC 128.

Co-requisite: BIOL 125.

This course provides students with the theory and practice of nursing in continuing to deal with selected basic needs of adults at different points on the wellness-illness continuum. This includes focusing on nursing process as applied to individuals who are experiencing select medical/surgical interferences; promoting physical, psychosocial, and spiritual health; intervening in illness; and assisting in rehabilitation. (Two and one-fourth hours theory, one and three-fourths hours clinical). (Fall, Spring, Summer)

NRSNG 217. Basic Nursing III: Mental-Health **4 hours**

Prerequisites: NRSNG 116, 117; BIOL 106, PSYC 128.

Co-requisite: BIOL 125.

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, Spring, Summer)

NRSNG 218. Basic Nursing IV: Medical-Surgical **7 hours**

Prerequisite: BIOL 125, NRSNG 215, 216, 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 impact of historical events and current trends upon the future of nursing is considered as well as the problems and responsibilities of the registered nurse. The student is introduced to leadership concepts (three hours theory, four hours clinical). (Fall, Spring)

NRS 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. A series of comprehensive examinations will be given at the culmination of the seminar. The student must perform at a pre-specified level on each area of the comprehensive examination. 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 therial course NRS 050.

UPPER DIVISION ADMISSION AND PROGRESSION REQUIREMENTS

Minimum requirements for admission to upper division nursing are listed below. The final decision on acceptance and continuation in nursing is made by the Division of Nursing. Declaration as a nursing major is not the equivalent of acceptance to the Division of Nursing.

1. Acceptance to Southern College.
2. Minimum grade point average of 2.25 for lower division courses in nursing.
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 pass an English proficiency test. If the student fails the English proficiency test, he must take remedial work in written and spoken English and repeat the proficiency test with a passing grade before entering nursing.
5. Students are required to demonstrate satisfactory performance on standardized tests. Remedial work will be required if performance level is not achieved.
6. Following application to the Nursing Admissions Committee, transfer students from another major or another college will be evaluated individually and assisted in fitting into the program.
7. 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.
8. 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.
9. Students will maintain a current CPR certificate throughout their upper division program.
10. 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 state board examinations before registering for senior clinical nursing courses.

11. 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).

12. Nursing Credit:

A. Associate Degree Graduate.

Graduates of a state approved associate degree nursing program will have met nursing requirements for the first two years of the program.

B. Diploma Graduate.

Graduates of a state approved diploma program will be evaluated on an individual basis. A maximum of thirty-five semester hours of nursing credit may be given which is equal to the requirements of the first two years of nursing at Southern College.

13. 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, including history and mathematics requirements. (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.

14. 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 203, Selected Concepts in Biochemistry; RELT 373, Christian Ethics.)

C. Students are required to demonstrate satisfactory performance on standardized and validating tests. Remedial work will be required if performance level is not achieved.

*On 4.00 scale.

CURRICULUM (Third and Fourth Years)

The Division of Nursing reserves the right to withdraw or revise courses as deemed necessary. All hour values are in semester hours.

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 37

Natural Sciences 7

Behavioral Science 6

General Education 12

Sample Sequence

Prerequisite: CHEM 111

$\frac{3}{3}$

Third Year

		1st Sem	2nd Sem
NRSG 324	Professional Nursing Perspectives	1	
NRSG 325	Advanced Physiology		4
NRSG 327	Nursing Assessment	4	
NRSG 335	Community Health		6
CHEM 203	Concepts of Biochemistry	4	
MATH 215	Statistics	3	
RELT 373	Christian Ethics	3	
BHSF	*Area F-1, Upper Division Behavioral Science		3

*Area C or D—An area C course is required unless an Area C course was included in the associate degree

		15	3 16
TOTAL			
Summer			
	Area D*	3	3
Fourth Year			
NRS 387	Home Health/Gerontology	3	
NRS 389	Pharmacology	2	
NRS 394	Nursing Research Methods	3	
NRS 425	Advanced Nursing Concepts	4	
NRS 484	Advanced Nursing Practice I		6
NRS 485	Advanced Nursing Practice II		4
	*Religion	3	
TOTAL		15	10

*One of the general electives must be a writing course.

NRS 324. Professional Nursing Perspectives **1 hour**

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. Study will be focused upon the Division of Nursing's philosophy and conceptual framework, nursing theories and models, professional nursing, and related concepts. Students will be evaluated in both theory and skills to identify weak areas. (One hour theory). (Fall, Spring)

NRS 325. Advanced and Pathologic Principles of Human Physiology **4 hours**

Prerequisite: CHEM 203.

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). (Arranged as needed for Consortium students). (Fall)

NRS 327. Nursing Assessment **4 hours**

Co-requisite: NRS 324.

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). (Arranged as needed for Consortium students). (Fall, Spring)

NRS 335. Community Health Nursing **6 hours**

Prerequisite: NRS 327; BHSF 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). (Fall, Spring)

NRS 346. Community Health Nursing 3 hours

Prerequisite: NRS 327; BHSF 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).

NRS 347. Community Health Nursing 3 hours

Prerequisite: NRS 327, 346; BHSF 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).

NRS 387. Home Health/Gerontology 3 hours

Prerequisite: NRS 327.

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 in-depth study of the active and non-active older adult. (Two hours theory, one hour clinical). (Beginning Fall 1987).

NRS 389. Pharmacology 2 hours

Prerequisite: CHEM 111 and CHEM 203.

Study of pharmacologic concepts. Focus will include major classifications, pharmacokinetics, drug interactions, and nursing consideration. (Two hours theory). (Beginning Fall 1987).

NRS 394. Nursing Research Methods (W) 3 hours

Prerequisite: BHSF 215.

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. In addition to the research component, this course orients the student to the goals and philosophy of professional practice. (Three hours theory). (Spring; Arranged as needed for Consortium students).

NRS 425. Advanced Nursing Concepts 4 hours

Prerequisites: All junior level nursing courses and cognates.

This course teaches the process of conceptualization. It provides part of the theory base for the advanced nursing practice courses and explores in-depth concepts, including the principles of administration, management and education. Current issues facing the professional baccalaureate nurse are explored. Each student is required to develop and present concepts in order to gain experience in applying and integrating his knowledge and demon-

strate his understanding. Students are expected and encouraged to make clinical and scholastic application of course content in their nursing practice. (Four hours theory). (Fall, Spring; Arranged as needed for Consortium students).

NRSG 484. Advanced Nursing Practice I (Primary Care with Research Component) (W) 6 hours

Pre- or co-requisite: NRSG 425.

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). (Fall, Spring; Arranged as needed for Consortium students).

NRSG 485. Advanced Nursing Practice II (Management With Research Component) 4 hours

Pre- or co-requisite: NRSG 425, 484.

This course provides the opportunity for the student to use independent judgment in developing clinical competence and management skills. This goal will be accomplished primarily through the leadership modes of research, management and administrative experiences in selected clinical areas. (One hour theory, three hours clinical). (Fall, Spring; Arranged as needed for Consortium students).

NRSG 295/495. Directed Study 1-3 hours

Prerequisite: Approval of division 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 14-16 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 nursing division, and an associate dean of students. The program at the Orlando Center is dedicated to the same Seventh-day Adventist ideals and philosophies that guide the main campus. Like the main campus, the Orlando Center employs professionally trained, high quality staff members. Only nursing and general education classes are offered, and these are all part of the two degree programs at the center: an Associate in Science in Nursing and the Bachelor of Science in Nursing. The latter is a part-time program primarily for employees of Florida Hospital Medical Center who want to upgrade their degree. The National League for Nursing accreditation status

of the main campus applies fully to the Orlando Center. The center has approval from the Florida State Board of Nursing and the Florida State Board of Independent Colleges.

Facilities

All facilities normally associated with the education and training of nurses are available at the Orlando Center. The college's main building, Linscott Hall, houses on the ground floor the administrative and teachers' offices, the library, a skills lab and a large classroom; on the second and third floors the residence hall. Other classrooms, lab facilities, the cafeteria, and recreation areas are located in the immediate vicinity. Clinical experience is available mainly at the Florida Hospital Medical Center which is located in close proximity to the main building of the college.

Financial Information

Tuition charges and residence hall rates are the same as on the main campus and are listed, along with other applicable financial policies, in the appropriate section of the catalog. Financial aid is available on the same basis at the Orlando Center as on the main campus. All charges for tuition and room rent are paid to the main campus office. Jobs are available at the Orlando Center to help students defray the cost of their education.

Student Services

Residence Hall Living. Located on the campus of Florida Hospital Medical Center and overlooking beautiful Lake Estelle, the residence hall provides a place for students to enjoy meeting life with capability and equanimity. Orlando and Central Florida are noted for their diverse cultural and recreational opportunities. Students who take at least three semester hours of work may live in the residence hall or annex. No obligation is assumed by Southern College for married student housing.

Student Association. The Student Association, through its elected officers, provides an active social life for the campus. Students are also appointed to serve on several staff and nursing committees.

Campus Chaplain. Orlando Center residents enjoy the association of a campus chaplain who ministers to the needs of the students in church-related activities such as Friday evening vespers, worships in the residence hall and Christian fellowship organizations.

Guidance and Counseling. Students who desire assistance and counseling in any area of social, academic or personal problems have available the services of a qualified counselor.

Health Service. Health service is made available to the student through the Family Practice Center of Florida Hospital. The college assists the students by paying up to 50% of the deductible amount of the insurance coverage provided by the college.

Cafeteria. Students enjoy the cafeteria and snack bar located at Florida

Hospital Medical Center. Meal charges are placed on the student's monthly statement. There is no minimum charge.

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 in Collegedale (see pages 156-160 of this bulletin) with the following exceptions:

1. All application forms and materials are sent to the Orlando Center.
2. The student who successfully challenges Basic Nursing I will be accepted to begin nursing courses in January (spring semester) on a space available basis.
3. Students may transfer between the Orlando Center program and the Collegedale program with special permission only.
4. Students who withdraw in good standing are eligible to return on a space available basis only.
5. Applications, transcripts from high school, other colleges (if applicable) and all other supporting documents must be received by March 1 for the fall class. Please send to:
Admissions and Records
Southern College of Seventh-day Adventists
Division of Nursing
711 Lake Estelle Drive
Orlando, FL 32803
6. Applicants will be notified of acceptance by April 1.
7. Completed medical and dental forms must be received one month prior to enrolling in the first clinical nursing course. This is because a health clearance is necessary before beginning care of patients.

The philosophy and objectives for the nursing program are the same as the Collegedale-based program (see section on nursing, pages 154-155). 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 because of a requirement by the Florida State Board of Nursing. Thus 71 hours are required for graduation rather than the 68 required of nursing students at Collegedale. Other graduation requirements are identical. All diplomas 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 IN NURSING

Orlando-based Program:

Major: Thirty-five hours for the Associate of Science degree including

NRSG 105, 116, 117, 215, 216, 217, 218, 223. Required cognates: BIOL 105, 106, 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 71 semester hours is required for the Associate of Science degree.

CURRICULUM (First and Second Year)

The Division of Nursing reserves the right to withdraw or revise courses as deemed necessary. All hour values are in semester hours. Completion of these requirements leads to an Associate of Science degree and eligibility to sit for state board examinations.

ORLANDO-BASED PROGRAM

Number of Hours Required:

Nursing 35	Natural Science 12
Behavioral Science 9	General Education 15

Pre-entrance Requirements: BIOL 105 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.

Sample Sequence:

Summer		1st Sem	2nd Sem
BIOL 105	Anatomy	3	
PSYC 124	Introduction to Psychology	3	
	TOTAL	6	

First Year

BIOL 106	Physiology	3	
ENGL 101	College Composition	3	
FDNT 125	Nutrition	3	
NRSG 105	Basic Nursing I	5	
NRSG 116	Basic Nursing II		5
NRSG 117	Basic Nursing II		5
PSYC 128	Developmental Psychology		3
RELT 125	Religion		3
	TOTAL	14	16

Summer

NRSG 217	Basic Nursing III	4	
SOCI 125	Introduction to Sociology	3	
	TOTAL	7	

Second Year

BIOL 125	Microbiology	3	
ENGL 102	College Composition	3	
NRSG 215	Basic Nursing III	4	

Nursing

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NRSG 216	Basic Nursing III	4	
NRSG 218	Basic Nursing IV		7
NRSG 223	Nursing Seminar		1
RELT	Religion		3
HIST	Area C-1*		3
	TOTAL	14	14

*If World History is not taken in high school, a European history course is required.

Admission and Progression for the Bachelor of Science Program

For information about this part-time program, contact the Associate Chairman of the Nursing Division, 711 Lake Estelle Dr., Orlando, FL 32803.

The Bachelor of Science in Nursing program is a four-year program designed to prepare graduates for professional nursing practice. The program includes a combination of classroom instruction and clinical experience. Students must complete a minimum of 120 credit hours, including 80 hours of nursing-specific coursework and 40 hours of general education. The program is accredited by the National League for Nursing (NLN) and the American Nurses Association (ANA).

Students are admitted to the program after completing the prerequisite courses and meeting the minimum GPA requirements. The program is designed to be completed in four years, with students taking 15-18 credit hours per semester. The curriculum includes courses in anatomy, physiology, microbiology, and medical-surgical nursing. Clinical rotations are provided in various settings, including hospitals, long-term care facilities, and community health centers. Graduates are eligible to sit for the National Council Licensure Examination (NCLEX-RN) to become Registered Nurses (RNs).

ASSOCIATE OF SCIENCE DEGREE IN NURSING
 Second Year
 BIOL 125 Microbiology
 ENGL 102 College Composition
 NRSG 217 Basic Nursing III
 Total 14 credit hours

OFFICE ADMINISTRATION

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Joyce Cotham, M.B.Ed., *Chairman*
 Evonne Richards, Ed.D.

The Office Administration program is designed to train students for the many aspects of secretarial and office work in the modern office.

The curriculum includes intensive study in business subjects and current secretarial practices which, combined with general education courses, provides a well-balanced program.

The department offers two degrees:

BACHELOR OF SCIENCE graduates in Office Administration plan to become office managers, administrative assistants, executive secretaries, or word processing managers. Students majoring in Business Education plan to teach business subjects and accompany their program with a sequence of courses from the Department of Education.

ASSOCIATE OF SCIENCE degree is a two-year program offered for students who desire a shorter, more concentrated period of secretarial training which, together with general education subjects, prepares the student to work as a secretary or in general office work. An emphasis of Executive, Medical, or Word Processing may be chosen.

BACHELOR OF SCIENCE DEGREE IN OFFICE ADMINISTRATION

Major: Forty-six hours including SECR 104, 114, 115, 213, 214, 216, 218, 221, 223, 315, 317, 323, 324; ECON 213 or 224; BUAD 334 and three hour elective of upper division in Business and Office Administration. Cognate requirements include ACCT 121:122, and CPTR 120 or equivalent.

Those students wishing to receive teacher certification in Office Administration must also satisfy the professional teacher education requirements. (See Education listing.)

Minor: Eighteen hours including SECR 214 and fifteen hours from courses in Office Administration, six of which must be upper division.

ASSOCIATE OF SCIENCE DEGREE IN OFFICE ADMINISTRATION

Two-year Associate of Science degree majors in Office Administration with ACT scores below 22 in Math may fulfill general education requirement (A-2) with SECR 218 (Business Math and Calculating Machines). Those with scores below 12 must take MATH 100.

Major—Executive Option: Thirty-four hours for the Associate of Science degree, including SECR 104, 114, 115, 213, 214, 216, 218, 221, 223, 315, 317, 323. Cognates required: ACCT 103 or 121; ENGL 102.

Major—Word Processing Option: Thirty hours including SECR 115, 213, 214, 216, 218, 221, 223, 315, 317, 323, 324; plus two hours elective

Office Administration

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in Office Administration. Cognates required: ACCT 103 or 121; ENGL 102; CPTR 120 or equivalent.

Major—Medical Option: Thirty hours including SECR 115, 213, 214, 216, 218, 221, 223, 316, 317, 323, 333; plus two hours elective in Office Administration. Cognates required: ACCT 103 or 121; BIOL 105; ENGL 102; CPTR 120 or equivalent.

Business Education Certification: Core requirements for Business Education certification include the following thirty-five semester hours:

A.	BUAD 121:122	Principles of Accounting	6	hours
	ECON 224:225	Principles of Economics	6	hours
	BUAD 337	Business Law	3	hours
	SECR 315	Business Communications	3	hours
	SECR 218	Business Math & Calculating Machines	2	hours
	SECR 105	Beginning Typewriting	3	hours
	CPTR 120	Computer-Based Systems	3	hours
	BUAD 128	Personal Finance	3	hours
	BUAD 334	Principles of Management	3	hours
	BUAD 315	Business Finance	3	hours
		TOTAL	35	hours
B.	EDUC 438	Methods of Teaching Business	2	hours

Additional Hours Required for Cluster Endorsements:

Basic Business

BUAD 338	Business Law	3	hours
ECON 328	Managerial Economics	3	hours
ECON 213	Survey of Economics	3	hours
	TOTAL	9	hours

Accounting

ACCT 211:212	Intermediate Accounting	6	hours
	TOTAL	6	hours

Data Processing

CPTR 125	BASIC Programming Language	3	hours
CPTR 127	Micro Tools	3	hours
	or two of the following:		
	CPTR 105, 106, or 107	2-3	hours
MATH 104	Intermediate Algebra	3	hours
	TOTAL	8-9	hours

Office Technology

SECR 214	Advanced Typewriting	3	hours
SECR 223	Concepts of Word Processing	2	hours
SECR 323	Word Processing Text-Editing	3	hours

SECR 213	Records Management	2	hours
SECR 317	Secretarial Procedures	3	hours
SECR 104	Shorthand I	4	hours
SECR 114	Shorthand II	4	hours
	TOTAL	21	hours

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.

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. Beginning Typewriting (G-2) 3 hours

Five class periods each week. One hour of laboratory a week is required. Basic keyboard fundamentals; development of manipulative techniques; development of speed and accuracy on straight copy material and problems; introduction to business letters; simple tabulation. For students with little or no previous training in typewriting. Students with one year of high school typewriting receive no credit. Thirty-five words a minute for three minutes is required. (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 2 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

Office Administration

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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 or consent of instructor.

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. (Spring)

SECR 219. Offset and Quick Print Operations **2 hours**

This course is designed to prepare the student to work in a quick print business operation by operating equipment typical of large corporation in-house printing systems. (Fall, Spring)

SECR 221. Office Transcription **2 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.

SECR 223. Concepts of Word Processing **2 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 develop skill in using an electronic memory typewriter. (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 or 316; BIOL 105 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)

SECR 317. Secretarial Procedures **3 hours**

Prerequisite: SECR 115 or consent of instructor; SECR 223.

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**

Prerequisite: SECR 223.

Introduces the student to the text editing capabilities of modern dedicated word processing equipment. The student will complete the self-paced training materials for the Dictaphone System 6000 as well as other supplementary projects. (Fall)

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

Prerequisite: SECR 323.

Continued skill and knowledge in the use of dedicated text editing equipment. In addition, the student is introduced to word processing software in a general purpose microcomputer and minicomputer environment. (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 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. Emphasis placed on professional development for this area of teaching. (Spring)

(G-2), (W) See pages 14-16 for explanation of General Education requirements.

PHYSICS

Ray Hefferlin, Ph.D., *Chairman*
Henry Kuhlman, Ph.D.

Physics bridges the gap between mathematics and logic on one hand, where absolute certainty can be obtained about abstract ideas, and most of human thinking on the other hand, where only tenuous knowledge exists about the solutions to very real and pressing problems. Physics attempts to obtain progressively more precise solutions to clearly defined problems more and more representative of the real world. This attempt includes modeling, simulation, and control using numerical, analytical, analog, and experimental methods. It not only presents the possibility of a challenging career but also contributes heavily to the life-experience of non-technical people.

The staff is concerned with the preparation of technically-minded students for challenging careers in pure Physics or in Physics applied to other fields. It also attempts to demonstrate to non-technical students the value of using Physics in their areas of interest. It is committed to exploring with all students the areas where Physics touches on religious and ethical values. Throughout, it makes extensive use of the excellent digital computer facilities at Southern College.

BACHELOR OF ARTS DEGREE IN PHYSICS

Major: Thirty hours including PHYS 213:214, 310, 317, 318, 480, and CPTR 125, 131, or 218.

BACHELOR OF SCIENCE DEGREE IN PHYSICS

Major: Forty hours including CPTR 125, 131, or 218, and PHYS 480.

Minor: Eighteen hours, including six hours upper division. CPTR 131 may be included.

Teaching Endorsement: The student must earn a major in the first teaching field. He may add the following endorsements by meeting the number of hours indicated below.

Physics

PHYS 211:212	General Physics	6 hours
	Physics electives	8 hours
PHYS 213:214	General Physics Laboratory	2 hours
	TOTAL	16 hours

General Science

BIOL 155:156	General Biology	8 hours
	Chemistry and Physics electives	8 hours
	TOTAL	16 hours

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 84 between EDUC 134 and 217.

PHYS 107. Introduction to Physics (E-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. Does not apply on major or minor in physics. Two hours lecture, three hours laboratory each week. (Spring)

**PHYS 155. Descriptive Astronomy:
Creation vs. Evolution (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 radiocarbon 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 325, 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 115.

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 20th century physics. Three hours lecture each week. Research experience is available in PHYS 495. (Fall)

PHYS 311:312. General Physics Calculus Applications 1,1 hours

Prerequisites: MATH 115 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. One class period per week. (Fall, Spring)

PHYS 313. Physical Optics **3 hours**

Prerequisites: PHYS 211:212; MATH 115.

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. (Spring)

PHYS 314. Thermodynamics **3 hours**

Prerequisites: PHYS 211:212; MATH 115.

A systematic introduction to thermodynamics, kinetic theory, and statistical mechanics of solids, liquids, and gases.

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. (Spring, odd years)

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. (Spring, even years)

PHYS 410. 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. (Spring)

PHYS 411:412. 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, 410, and 411:412; MATH 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 atomic and nuclear physics, elementary particles, wave mechanics, relativity, and other topics on the frontiers of physics. Research experience is available in PHYS 495. (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 exists 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. May be repeated for credit up to six 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 Mathematics and 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 14-16 for explanation of General Education requirements.

RELIGION

Douglas Bennett, Ph.D.
Jack Blanco, Th.D.
Jerry Gladson, Ph.D.
Norman Gulley, Ph.D.
Gordon Hyde, Ph.D., *Chairman*
Ronald Springett, Ph.D.

The Division of Religion offers one major with several minors to provide for the diversified interests and ambitions of students. The Bachelor of Arts degree in Religion serves candidates for the ministry of the Seventh-day Adventist Church, providing the undergraduate academic preparation for the Theological Seminary of Andrews University, Berrien Springs, Michigan. The Bachelor of Arts degree in Religion is also a suitable degree for students who may be preparing to serve as secondary Bible teachers, Bible instructors, chaplains' assistants, and for those who may be preparing for various other professions, such as medicine, dentistry, and law. All majors must arrange their programs with a teacher in the Division of Religion and have that program approved by the division. Each program will be individualized for the student and approval will be granted on the following considerations: first, evidence of a program having both balance and diversity; second, the needs of each student professionally and individually considered; and third, all general education and major requirements fulfilled.

Beyond these considerations, the division is endeavoring to help both major and non-major students develop a personal religious life of commitment and service and to enhance their understanding and appreciation of God as Creator and Redeemer. It also seeks to enlarge the student's comprehension and appreciation of the Bible as the infallible rule of faith and practice for the Christian and to foster an understanding of and a loyalty to the mission of this college and of the Seventh-day Adventist Church.

Students who wish to be admitted to the religion program in preparation for the ministry must file a formal application with the Division of Religion during the first semester of their sophomore year. All sophomore or transfer ministerial students must take a battery of vocational tests before being recommended to ministerial training. The time for the test will be announced by the division. (Upper class transfer students must file an application during the first semester in residence.) The applicant must have an overall cumulative grade point average of 2.25, demonstrate competence in English communication skills, and show evidence of moral, physical, social, and intellectual fitness, emotional maturity, and professional commitment. Only those who complete the requirements will be recommended by the division as prospective ministerial employees, and those students who plan to attend Andrews

University Seminary must have a cumulative GPA at the time of graduation of no less than 2.50.

Religion majors are required to attend professional chapels for the information and inspiration provided. If at any time after being admitted to the ministerial program, students provide evidence of failing to live up to the stated criteria, they may forfeit the division's recommendation.

BACHELOR OF ARTS DEGREE IN RELIGION

Major: Thirty hours to include RELB 125, 345, 346, 425, 426, 435, 436; RELT 138, 484, 485. Additional requirements for the Ministerial Tracks and Teacher Education Track are as follows:

Ministerial Track — Seminary: A Biblical Languages minor and the following cognate courses: HIST 364, 365; RELP 321, 322.

Ministerial Track — Non-Seminary: A Practical Theology minor and the following cognate courses: HIST 364, 365; SPCH 135; RELL 271, 272.

Teacher Education Track: Professional and general education courses as outlined in the Educational section of the catalog and a minor of the student's choice. EDUC 438, Special Methods of Teaching Bible, must be included.

The Division of Religion strongly recommends that ministerial students choose the seminary track. The division further recommends that they broaden their professional training by selecting from the following courses to fulfill general education requirements: PSYC 128 (F-1); BUAD 128 (F-2); SOCI 223 (F-2); CPTR 105, 106, 107, 120, 127 (G-2); and from the following as electives: ACCT 103; BUAD 334, 344; INDS 175, 177, 185, 264.

Directed field education provided by the Division of Religion is required of ministerial students. Participation in these experiences, which are designed to enhance professional development, is necessary in order for the student to be granted a ministerial recommendation by the division. The division will keep majors informed of the requirements to be met.

Evangelism field schools may be conducted under the auspices of the division and offer up to five hours of academic credit. Additional programs for individual students and student teams may be available by approval of the division to accommodate requests from the conferences of the Southern Union. Satisfactory prior arrangements must be made with the Division of Religion.

Details concerning the field school and associated programs are available through the Division of Religion.

Minor—Religion. Eighteen hours including six upper division hours and RELT 138, 255. No more than one course may be selected from the following: RELT 317, 318, 325.

Minor—Biblical Languages. Eighteen hours including RELB 271:272; 311:312; 471:472.

Minor—Practical Theology. Eighteen hours including RELT 236; RELP 321:322; 351:352; 455; SPCH 136, EDUC 134.

Minor—Denominational Teaching Endorsement: The student must earn a major in the first teaching field. He may add denominational certification in Religion by taking the following minor. RELB 125; RELT 138, 236, 255, and 3 hours selected from each of RELB, RELT courses.

Tennessee State Certification

Students seeking Tennessee State Certification only must take 12 hours selected from the following: RELB 125, 345, 346, 425, 426, 435, 436, and RELT 368. Note that RELT 236 will not be accepted by the state for certification and RELT 368 will not be accepted by the denomination.

Students who wish to obtain teacher certification must apply to the Department of Education before the end of their sophomore year to be admitted to the teacher education program and before the end of their junior year to be admitted to the professional education semester.

BIBLICAL STUDIES

RELB 125. Life and Teachings of Jesus I (B-1) 3 hours

A study of the life, ministry, and teachings of Jesus with special emphasis upon His teachings as they apply to the personal, social, and religious problems of the individual. (Fall, Spring, Summer)

RELB 345. Pentateuch and Writings (B-1) (W) 3 hours

An introduction to the Pentateuch and Writings, the first and third major divisions of the Old Testament. Attention will be given to the structure, theme, theology, and historical setting of this literature. (Fall, alternate Summers)

RELB 346. Prophets (B-1) (W) 3 hours

An introduction to the Prophets, the second division of the Old Testament. Attention will be given to the structure, theme, theology, and historical setting of this literature. (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) (W) 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)

RELB 435. New Testament Studies I (B-1) (W) 3 hours

An exegetical study of the following epistles in order of their composition: 1 and 2 Thessalonians, 1 and 2 Corinthians, Galatians, 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

An exegetical study of Romans, the Prison, Pastoral, and General epistles, (excluding James) and Hebrews. (Spring, alternate Summers)

RELB 295/495. Directed Study (B-2) 1-3 hours

This course is limited to Religion and Theology majors and must be approved by the chairman of the Division of Religion. Occasionally the course may be conducted as a seminar and published in the schedule of classes. (Fall, Spring, Summer)

RELIGION**RELT 138. Adventist Heritage (B-2) 3 hours**

A study of the worldwide advent emphasis of the early nineteenth century and the subsequent development of the Seventh-day Adventist Church and faith, and of the contributory role played by Ellen G. White in its development. (Fall, Spring, Summer)

RELT 225. Last-Day Events (B-2) 3 hours

Prerequisite: One college Biblical Studies or Religion course.

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. (Fall, Spring, Summer)

RELT 236. Biblical Interpretation (B-2) 3 hours

An introduction to the theory and practice of biblical exegesis and hermeneutics. 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. Some consideration will also be given to the interpretation of the writings of Ellen G. White. (Fall, Spring)

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, E-3) 3 hours**

(See Division of Mathematical Sciences PHYS 317.)

***RELT 318. Issues in Physical Science and Religion II (B-2, E-3) 3 hours**

(See Division of Mathematical Sciences PHYS 318.)

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***RELT 325. Issues in Natural Science and Religion (B-2, E-1), (W)** **3 hours**
(See Division of Natural Science listings, BIOL 325.)

RELT 326. Dynamics of Salvation (B-2), (W) **3 hours**
The study of the underlying principles of the plan of salvation as revealed in the sanctuary services of the Old Testament. (Spring)

RELT 367. Philosophy of Religion (B-2), (W) **3 hours**
A study of the basic concepts of religion from a philosophical viewpoint. Attention will be given to such major questions as religious experience, reason and faith, theism and atheism, religious language, and the problem of evil. (Spring)

RELT 268/368. Comparative Religions (B-2), (W) **3 hours**
A study of several major Christian and non-Christian religions of the world, 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. (Fall)

RELT 373. Christian Ethics (B-2) **3 hours**
A foundation course in moral decision-making with case studies taken from bio-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 personal and social issues relevant to the student. Limited to nursing students or students with Junior/Senior class standing. (Fall, Spring, Summer)

RELT 465. Historical Theology (B-2), (W) **3 hours**
An introduction to the major theological thought systems and leaders beginning with the early Church Fathers to the present as a backdrop for better understanding the current theological climate. Also special emphasis will be given to the ways in which such theological activities and church councils dramatized God's hand in history within the conflict between good and evil. (Spring)

RELT 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. (Fall)

RELT 485. Christian Theology II (B-2) **3 hours**
Prerequisite: RELT 484.
Christian Theology II examines Anthropology, Soteriology, Ecclesiology, and Eschatology, covering the rest of the 27 Seventh-day Adventist fundamental beliefs. Acceptable for denominational certification. (Spring)

RELT 295/495. Directed Study (B-2) **1-3 hours**
This course is limited to Religion and Theology majors and must be ap-

proved by the chairman of the Division of Religion. 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, to Religion for nonmajors.

PRACTICAL THEOLOGY

Lay Leadership

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. 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 to help finish the work of the church. (Fall)

REL 206. Christian Salesmanship 2 hours

Teaches the psychology, techniques and methods of selling Christian literature.

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

Prerequisites: SPCH 135 and REL 321.

Expository, textual, and evangelistic 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 351:352. Pastoral Ministry I and II 2:2 hours

An introduction to the practice of pastoral ministry, this course focuses on the theology of ministry, ministerial ethics, the relationship of the minister to denominational polity, the community, and the local church. Considera-

tion is given the various professional tasks of the pastor, such as pastoral care, administration, leadership in worship, etc. Laboratory work in area churches will be required. (Fall, Spring)

***RELP 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. (Fall, occasional Summers)

* RELP 455 may be applied to General Education requirements, Area B-3, for up to three hours of credit.

BIBLICAL LANGUAGES

RELL 271:272. Elements of New Testament Greek (D-1) **4:4 hours**

A study of the grammar and syntax 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. EDUC 133.

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. (Spring)

(B-1), (B-2), (B-3), (D-1), (E-1), (E-3), (W) See pages 14-16 for explanation of General Education requirements.

INTERDEPARTMENTAL PROGRAMS

ALLIED HEALTH PROFESSIONS

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 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.

General Education requirements for the Associate of Science degree are listed on pp. 14-16 of the Catalog. General education requirements for admission to professional schools at Loma Linda University are summarized as follows. For specific requirements, consult pp. 185-189 of this Catalog or the appropriate Bulletin for the professional school of your choice.

ENGL 101:102	College Composition	6 hours
	Religion/Bible	9 hours
	Speech	2-3 hours
	Humanities*	
	(including Speech)	total 8-12 hours
	Social Sciences*	total 8-12 hours
	electives and general education to total	
	64 semester hours	

* Specific options in these areas listed in College Catalog and in Bulletins for professional schools. Some of these requirements may be met by required professional courses.

There are seven emphases in the Allied Health Professions degree: pre-Dental Hygiene, pre-Dietetics, pre-Medical Record Administration, pre-Occupational Therapy, pre-Physical Therapy, pre-Radiology Technology, and pre-Respiratory Therapy. Requirements for each are given.

Allied Health Professions

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PRE-DENTAL HYGIENE

Advisor: Steven Warren

BIOL 105:106	Anatomy and Physiology	6	hours
BIOL 125	Microbiology	3	hours
CHEM 111:112	Survey of Chemistry	6	hours
CHEM 113:114	Survey of Chemistry Lab.	2	hours
PSYC 124	Intro to Psychology	3	hours
SOCI 125	Intro to Sociology	3	hours
	TOTAL	23	hours

PRE-DIETETICS

Advisor: Diane Fletcher

MATH 104	Intermediate Algebra	3	hours
FDNT 125	Nutrition	3	hours
FDNT 126	Foods	2	hours
FDNT 127	Food Preparation	1	hour
FDNT 317	Meal Management	3	hours
ACCT 103	College Accounting	3	hours
ECON 213	Survey of Economics	3	hours
BIOL 105:106	Anatomy and Physiology	6	hours
	(BIOL 105 may be waived if ACT in Nat. Sci. is high enough and with approval of advisor)		
BIOL 125	Microbiology	3	hours
CHEM 111:112	Survey of Chemistry	6	hours
CHEM 113:114	Survey of Chemistry Lab.	2	hours
	(those planning on graduate work in nutrition or dietetics should take CHEM 151:152, CHEM 311:312, and CHEM 323)		
PSYC 124	Introduction to Psychology	3	hours
SOCI 125	Introduction to Sociology	3	hours
	(students applying to AU should take Psychology OR Sociology and should include CPTR 125 Intro. to Computers)		
	TOTAL	41	(38) hours

PRE-MEDICAL RECORDS ADMINISTRATION

Advisor: Joyce Cotham

BIOL 105:106	Anatomy and Physiology	6	hours
MATH 104	Intermediate Algebra	3	hours
PSYC 124	Introduction to Psychology	3	hours

SECR 315	Business Communications	3 hours
BIOL 155:156	Foundations of Biology RECOMMENDED. (A full sequence of science may be substituted.)	6-8 hours
	Typing proficiency of 50 wpm for 10 minutes	0-5 hours
	TOTAL	21-28 hours

PRE-OCCUPATIONAL THERAPY

Advisor: Steven Warren

INDS 154	Woodworking	4 hours
INDS 155	Creative Crafts	2 hours
ART 235	Ceramics I	3 hours
BIOL 105:106	Anatomy and Physiology	6 hours
BIOL 125	Microbiology	3 hours
CHEM 111:112	Survey of Chemistry	6 hours
CHEM 113:114	Survey of Chemistry Lab	2 hours
	(a full sequence of physics or math may be substituted for chemistry; e.g., PHYS 211:212 or MATH 114 and 115)	
PSYC 124	Introduction to Psychology	3 hours
PSYC 128	Developmental Psychology	3 hours
SOCI 125	Introduction to Sociology	3 hours
	TOTAL	35 hours

PRE-PHYSICAL THERAPY

Advisor: Marcella Woolsey

PHYS 107	Introduction to Physics	3 hours
BIOL 105:106	Anatomy and Physiology	6 hours
	(BIOL 155:156 Found. of Biology 8 hrs. may be substituted)	
BIOL 125	Microbiology	3 hours
CHEM 111:112	Survey of Chemistry	6 hours
CHEM 113:114	Survey of Chemistry Lab.	2 hours
PSYC 124	Introduction to Psychology	3 hours
PSYC 128	Developmental Psychology	3 hours
	TOTAL	26 hours

PRE-RADIOLOGY TECHNOLOGY*

Advisor: Henry Kuhlman

PHYS 107	Introduction to Physics	3 hours
BIOL 105:106	Anatomy and Physiology	6 hours

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CHEM 111:112	Survey of Chemistry	6	hours
CHEM 113:114	Survey of Chemistry Lab.	2	hours
MATH 104	Intermediate Algebra	3	hours
PSYC 124	Introduction to Psychology	3	hours
	OR SOCI 125 Intro. to Sociology		
	TOTAL	23	hours

PRE-RESPIRATORY THERAPY*

Advisor: Marcella Woolsey

PHYS 107	Introduction to Physics	3	hours
BIOL 105:106	Anatomy and Physiology	6	hours
	(BIOL 155:156 Found. of Biology may be substituted)		
BIOL 125	Microbiology	3	hours
CHEM 111:112	Survey of Chemistry	6	hours
CHEM 113:114	Survey of Chemistry Lab.	2	hours
MATH 104	Intermediate Algebra	3	hours
PSYC 124	Introduction to Psychology	3	hours
	(SOCI 125 Intro. to Sociology may be substituted)		
	TOTAL	26	hours

* Admission to professional programs in Radiology Technology and Respiratory Therapy require 32 semester hours of prerequisites. The student choosing this option would not receive an A.S. degree from Southern College.

ENGINEERING

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Advisor: Larry Hanson

Southern College of Seventh-day Adventists has established an affiliation in engineering with Walla Walla College (WWC) whereby the first two years of the engineering program may be taken at Southern College and the remaining work at WWC. Students desiring a Bachelor of Science in Engineering degree can choose from three areas of concentration: civil, electrical, mechanical. The WWC engineering program is fully approved by the Accreditation Board for Engineering and Technology, the only nationally recognized organization which regularly evaluates professional engineering curricula. The total engineering enrollment consists of approximately 400 students, many of whom are on various SDA college campuses for their first year or two.

In addition to the above professional degree programs, a pre-professional degree program in bioengineering is available.

The following courses are required:

Humanities/Social Studies*	6 hours
Physical Education	2 hours
Religion/Bible*	6 hours
ENGL 101:102	6 hours
INDS 149	3 hours
MATH 115, 217, 218, 315	13 hours
CHEM 151:152	8 hours
CPTR 218	3 hours
PHYS 211:212; 213:214; 311:312	10 hours

The Humanities/Social Studies category includes courses such as art, literature, music, economics, history, behavioral science. See the engineering advisor for details.

ENGR 211. Engineering Mechanics: Statics **3 hours**

Prerequisite: MATH 115.

Two and three dimensional equilibria employing vector algebra; friction; centroids and centers of gravity; moments of inertia.

ENGR 212. Engineering Mechanics: Dynamics **3 hours**

Prerequisites: MATH 115; ENGR 211.

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.

ENGR 214. Circuit Analysis **3 hours**

Prerequisites: MATH 115; PHYS 211.

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.

*** Obtain advisor's approval before taking courses in this category.**

ENGR 214. Circuit Analysis Prerequisites: MATH 115; PHYS 211. Circuit variables and parameters; Kirchhoff's laws and circuit solution; sinusoidal steady-state; phasors and impedance; frequency characteristics; Thevenin's theorem and maximum power theorem; transients and complex	3 hours
ENGR 215. Engineering Mechanics: Dynamics Prerequisites: MATH 115; ENGR 211. One and two dimensional kinematics and kinematics of rigid bodies by vector calculus; dynamics of rotation; translation and plane motion; relative motion; work and energy; impulse and momentum.	3 hours
ENGR 217. Engineering Mechanics: Statics Prerequisites: MATH 115. Two and three dimensional equilibria employing vector algebra; friction; centroids and centers of gravity; moments of inertia.	3 hours
ENGR 218. Engineering Mechanics: Fluid Mechanics Prerequisites: ENGR 217. Fluid statics; fluid dynamics; flow measurement; dimensional analysis; similarity; boundary layer theory; flow in pipes and ducts; flow over airfoils; compressible flow; shock waves; supersonic flow; jet propulsion.	3 hours
ENGR 219. Engineering Mechanics: Heat Transfer Prerequisites: ENGR 217. Conduction; convection; radiation; heat exchangers; psychrometrics; mass transfer; diffusion; evaporation; condensation; boiling; heat transfer in pipes and ducts; heat transfer in finned surfaces; heat transfer in composite walls; heat transfer in multilayered media; heat transfer in multilayered media.	3 hours
ENGR 220. Engineering Mechanics: Thermodynamics Prerequisites: ENGR 217. Thermodynamics; properties of pure substances; first and second laws of thermodynamics; entropy; availability; exergy; combustion; gas mixtures; psychrometrics; mass transfer; diffusion; evaporation; condensation; boiling; heat transfer in pipes and ducts; heat transfer in finned surfaces; heat transfer in composite walls; heat transfer in multilayered media; heat transfer in multilayered media.	3 hours
ENGR 221. Engineering Mechanics: Materials Prerequisites: ENGR 217. Mechanical properties of materials; stress-strain relationships; failure criteria; fracture mechanics; fatigue; creep; viscoelasticity; composite materials; materials selection; materials processing; materials characterization; materials testing; materials failure analysis.	3 hours
ENGR 222. Engineering Mechanics: Manufacturing Processes Prerequisites: ENGR 217. Manufacturing processes; materials selection; materials processing; materials characterization; materials testing; materials failure analysis.	3 hours
ENGR 223. Engineering Mechanics: Control Systems Prerequisites: ENGR 217. Block diagrams; transfer functions; root locus; frequency response; state space analysis; digital control systems; PID control systems; control system design; control system analysis.	3 hours
ENGR 224. Engineering Mechanics: Robotics Prerequisites: ENGR 217. Robotics; kinematics; dynamics; control systems; sensor systems; robot programming; robot simulation; robot hardware; robot software; robot safety; robot ethics.	3 hours
ENGR 225. Engineering Mechanics: Environmental Engineering Prerequisites: ENGR 217. Environmental engineering; air pollution; water pollution; solid waste management; noise control; environmental impact assessment; environmental quality indicators; environmental policy; environmental law; environmental economics; environmental ethics.	3 hours
ENGR 226. Engineering Mechanics: Professional Practice Prerequisites: ENGR 217. Professional practice; ethics; communication; project management; business plan; marketing; financial analysis; legal aspects of engineering; professional registration; continuing education; professional liability insurance; professional conduct; professional responsibility.	3 hours

GENERAL STUDIES

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Advisor: Carole Haynes

Southern College offers the Associate of Science degree with a major in General Studies. Many students 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 the area of their choice.

ASSOCIATE OF SCIENCE DEGREE IN GENERAL STUDIES

	AREA	SEMESTER HOURS
A-1	English	6-9
A-2	Mathematics	3
B	Religion	6
C	History/Government/Economics	6
D	Language/Literature/Fine Arts	6
E	Natural Science	6
F	Behavioral/Family/Health Science	3
G	Activity Skills	6
	Electives	19-22

Area C. At least 3 hours must be history.

Area D. Must include at least 2 sub-areas.

Area E. Must include at least 2 sub-areas.

Area G. Must include at least 2 sub-areas with not more than 3 hours in any one sub-area.

Elective credit is to be selected from not more than four subject areas.

MEDICAL TECHNOLOGY

Advisor: Henry Kuhlman

This program, leading to a 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 Erlanger Memorial Hospital, Florida Hospital Medical Center, and Kettering Medical Center. Internship in other CAHEA-accredited programs requires prior college approval.

Acquiring this degree in medical technology 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 his 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. Southern College charges a \$50 recording fee for the senior year.

Candidates for the Bachelor of Science degree from Southern College with a major in medical technology must complete the following requirements:

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 42

*BIOL including 225, 155, 156, 315 16

*CHEM including 151, 152, 311, 313 16

CPTR 120, 125 or 131 3

MATH 114 4

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 14

Recommendations include:

BIOL 316, 415, 417, 418

CHEM 312, 314, 315, 321, 323, 324

MATH 215

PHYS 211, 212, 213, 214

TOTAL PRE-CLINICAL CREDIT HOURS 93

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.

2+2 MEDICAL TECHNOLOGY PROGRAM

The 2+2 ladder program in medical technology permits an individual possessing an associate degree from an accredited college plus certification as a medical laboratory technician [MLT (ASCP) or CLT (NCA)] to earn a baccalaureate degree in medical technology without duplicating previous work. For this program, students spend their junior year at Southern College completing general education and science requirements. They spend their senior year at Kettering Medical Center in Dayton, Ohio, studying advanced topics in clinical laboratory science.

MEDICAL SCIENCE

Advisor: Stephen A. Nyirady

Southern College will confer a Bachelor of Science Degree in Medical Science 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 should be made to the Director of Records.

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

Advisor: Katie Lamb

Registered nurses who are comfortable working in critical care areas may be interested in becoming 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 Division of Nursing.

DENTISTRY

Advisor: Duane Houck

Because of competition for admission to schools of Dentistry, most applicants have completed a four-year college degree rather than the required minimum of two years of college. Some may be accepted after three years.

Successful applicants to Dental School must make satisfactory scores on the Dental Admissions Test in addition to meeting G.P.A. and personal qualifications. For a reasonable chance of admission to Loma Linda University (LLU), it is recommended that the student maintain a minimum G.P.A. of 3.0 in both science and non-science courses. Satisfactory performance on the Dental Dexterity Test is also required.

The following courses must be included to meet the minimum requirements for admissions to the LLU School of Dentistry:

BIOL 155, 156	8 hours
BUAD 334	3 hours
CHEM 151:152, 311:312, 313:314	16 hours
ENGL 101:102	6 hours
MATH 114	4 hours
PHYS 211:212, 213:214	8 hours
PSYC 124	3 hours
Physical Education	1 hour
Religion	9 hours
Electives	8 hours

Non-Degree Pre-Professional Programs

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The following courses are strongly recommended:

FDNT 125	3 hours
INDS 174	4 hours
ACCT 103	3 hours
MATH 115	3 hours
An additional Psychology course	

LAW

Advisor: William Wohlers

The student 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, creative writing, and mathematics. Pre-law students should concentrate on developing their analytical and verbal 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, Pennsylvania 18940.

MEDICINE

Advisor: Stephen A. Nyirady

Medical colleges, as a rule, require the completion of academic requirements for a baccalaureate degree. Along with the completion of stated admission requirements, a broad college program of liberal education is preferred to give balance to professional studies and later service.

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 155, 156, 313*, 316*, 417*	11 hours
CHEM 151:152, 311:312, 313:314, 323*	16 hours
ENGL 101:102	6 hours

Non-Degree Pre-Professional Programs

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MATH 114, 115*	8 hours
PHYS 211:212, 213:214	8 hours
Religion	12 hours

OPTOMETRY

Advisor: 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. 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 pre-optometry courses required by most schools:

BIOL 225 and 155:156	11 hours
CHEM 151:152	8 hours
ENGL 101:102	6 hours
MATH 114, 115, 215	12 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, Missouri 63141.

OSTEOPATHIC MEDICINE

Advisor: 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 Kansas City School of Osteopathic Medicine, one of twelve osteopathic medical colleges in this country.

Courses for admission are basically the same as those for Loma Linda University.

For a reasonable chance of acceptance, a minimum grade point average of 3.0 should be maintained in both science and non-science subjects.

PHARMACY

Advisor: Mitchell Thiel

The bachelor's degree program in pharmacy normally requires 5 years, the first two years of which may be taken at Southern College.

Non-Degree Pre-Professional Programs

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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:

ACCT 121	3 hours
BIOL 155:156	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, of course, 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

Advisor: Dorothy Giacomozzi

Today 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 105, 106 or 155, 156, and 125	9-11 hours
CHEM 111:112, 113, 114	8 hours

Non-Degree Pre-Professional Programs

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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 advisor.	

The Allied Health Professions Admission Test is required.

VETERINARY MEDICINE

Advisor: Edgar Grundset

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 almost impossible 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 125, 155:156	11 hours
CHEM 151:152, 311:312, 313:314, 323	20 hours
ENGL 101:102	6 hours
MATH 114, 115	9 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.)



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 firsthand 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 close 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.

Student Life and Services

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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 A.D. nurse graduates 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 the opening week of 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 Job Placement Office serves as the liaison officer 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 By-laws*.

Student Life and Services

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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 divisions; social clubs—Married Couples' Forum, Sigma Theta Chi, and Upsilon Delta Phi; 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 distinguished artists, lecturers, and film travelogues is provided for students, generally on Saturday or Sunday nights. The cost of season tickets issued to students is partially 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 delight in 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, theater attendance, card playing, dancing, profane or vulgar language, hazing, and improper associations are not tolerated.

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.

CHAPEL AND WORSHIP SERVICES

In private parochial education it has been well known that elimination of residence halls convocations and all school 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 comprising the college community. Students are required to attend these services regularly. Failure to do so will jeopardize the student's current status and readmission privileges.



ADMISSIONS, EXPENSES, AND FINANCIAL AID

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).
- 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.

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

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

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

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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. 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 pages 28 and 29). 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 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

be required to take an eight (8) week Basic English Language Seminar during the previous summer. Students must reach the above stated score to be admitted to the college for the regular academic year. If admitted, after taking the Basic English Language Seminar students will be required to enroll in ENGL 099. Southern College is not a bilingual institution.

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 an international student *not* leave his homeland until he or she receives 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 if the application is received at least six weeks before the beginning of the semester and \$20 if after that.
- ▶ 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 until July 15, after which the fee becomes \$20.

ESTIMATED STUDENT BUDGET	
Per Semester	Total Hours
184	18
181	18
180	18
179	20
178	20
177	20
176	20
175	20
174	20
173	20
172	20
171	20
170	20
169	20
168	20
167	20
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9	20
8	20
7	20
6	20
5	20
4	20
3	20
2	20
1	20
0	20

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 211) and financial aid in the form of grants, loans, and scholarships. Before each registration EACH student must submit a payment agreement to the Student Accounts 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 1986-87:

Tuition charges range from \$179 to \$198 per hour. Students taking one to twelve semester hours will be charged at the rate of \$198 per hour. Students taking over twelve hours will be charged as follows:

Total Hours Per Semester	Approximate Average Hourly Rate Per Semester	Tuition Charge Per Semester
13	194	2520
14	189	2644
15	184	2768
16	181	2892
17	180	3062
18	180	3232
19	179	3402
20	179	3572

ESTIMATED STUDENT BUDGET

Average Costs for Students in Residence Halls:	One Semester	Both Semesters
Tuition (based on fifteen hours per semester)	\$2768	\$5536
Books, supplies, and miscellaneous	180	360
Resident Hall	532	1064
Food (\$165 per month average)	700	1400
TOTAL	\$4180*	\$8360*

*Personal expenses not included.

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 5 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 semester hours each. Application forms for this rebate will be available at the Student Accounts Office.

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 twelve 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 thirteen half-hour lessons per semester for one hour of credit. The cost of such lessons is the regular tuition plus a \$90 music lesson fee per semester.

The noncredit music lesson fee is \$210 for thirteen 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 bring 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:

Expenses

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Application for admission (not refundable)	\$15.00
Automobile parking fee (per semester) — dormitory	30.00
Automobile parking fee (per semester) — village	20.00
Motorcycle parking fee	20.00
Change of program	10.00
Credit by examination (per hour) Recording Fee	25.00
Examinations:	
Challenge or waiver	40.00
CLEP	30.00
Rescheduling mid-term or final	50.00
Graduation in absentia	40.00
Incomplete	5.00
Industrial Education	
(approximate amount for tools and equipment)	200.00
Insufficient funds check	15.00
Late Registration	25.00
Late return of organizational uniform	15.00
(The full cost will be charged if irreparably damaged or not returned.)	
Scuba	85.00
Student insurance	115.00
Spouse insurance	172.50
Child/children insurance	172.50
Nursing education fees*:	
Associate degree (per semester)	162.50
Baccalaureate degree (after completing Assoc. Degree) (per year)	150.00

*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 (maximum \$200 first semester and \$160 second semester). When a student reaches the maximum during the semester, all further books and supplies must be paid in cash.
- 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 twelve 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 \$1064 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 \$120 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 \$100 to \$220 per month. Trailer space is available at \$75 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 \$8 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 \$75 per month. Maximum allowable cafeteria charge will be \$190 per month. Exceptions must be cleared through the Student Accounts Office.

ADVANCE PAYMENTS

Regular: An advance payment of \$750 is required before registration. For students residing in any dormitory housing, an additional \$100 is due before moving in. For new students entering second semester the advance payment is \$500, 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. *The advance payment is credited back to the student's March account.* The advance payment with interest at the rate of 9% per annum from the date of payment will be credited to the student's account when the payment is refunded.

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 their 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 study abroad under the Adventist Colleges Abroad (ACA) program must pay \$100 with their admission application and sign the payment agreement in the Student Accounts Office stating that the required ACA charges for the year will be paid to Southern College before departure from the states.

METHOD OF PAYMENT

Community students and residence hall students may choose one of the three 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. They will also need to bring sufficient funds for purchase of books and personal items.

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:

		Past Due Date
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

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.

The above schedule of payment must be maintained since the college budget is based upon 100 percent collection of student charges.

A student cannot take semester examinations or register for a new semester until the account is current according to the preceding regulations. 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.**

The second semester statements and payment schedule will follow the same procedure as the first semester with the student's advance payment applied to the March statement.

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		Past Due Date
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

Payment Plan III. Contract with New Insured Tuition Payment Plan or Tuition Plan, Inc. Students and parents desiring to pay educational expenses in monthly installments and to have the advantages of cash payment with the college may select a low-cost deferred payment program available through either the New Insured Tuition Payment Plan or Tuition Plan, Inc. The student's education is protected with life and disability insurance on the parents. For more information about the Plan, write to the Director of Student Financial Aid.

After considering the discount allowed by the college, the following benefits are realized at little, if any, cost to those entering under either plan:

1. A five percent cash discount is allowed each student entering under Payment Plan III if the college receives payment for the student at its regular disbursement time each semester.
2. The payments may be reduced to a minimum by being spread over 12 months or, in the case of a four-year contract, up to 96 months.
3. The contract may be cancelled at any time without penalty.
4. The account may be insured. In the event of death or total disability of the person responsible for payments, the balance of an insured contract is paid in full.

At the time of figuring the contracts, students may choose to include in their contract sufficient cash to cover books, fees, school supplies, etc. Any items not included in the contract plan chosen must be paid for in cash at the time they are received or arranged.

The plan is open to employed parents and bona fide sponsors, and all arrangements should be made several months before registration in order to be assured of the five percent discount. Sufficient cash must also be brought to cover items not included in the contract.

Those desiring further information covering these deferred payment plans may contact the Director of Student Financial Aid.

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:

First five (5) school days of the semester	95%
Sixth through 24th school day of the semester	5% less per day

No refunds after the 24th school day of the semester.

Shortened School Term (Summer or Other) Withdrawals and Changes

Tuition refunds for classes dropped in a summer, or other session less than a semester in length, will be prorated on a base of one-half of the number of school days in the school 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 Accounts 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 217). 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 turned over to a collection agency or attorney. Prompt payment of accounts build credit ratings which will be important to you in the future, since the college will report delinquent accounts to the Credit Bureau systems.

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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 already 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. At the same time such discharge in bankruptcy does not require further performance of service by the creditor and, therefore, a student who has had debts to the college discharged in this manner may not receive a transcript of academic work or additional Financial Aid at the college until the debt is paid.

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 account at the school, or any unpaid account for which the college has co-signed. 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 in default.

NON-LIABILITY FOR PERSONAL EFFECTS

When determining what to bring on 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.

Each student should bring approximately \$180 for books and miscellaneous supplies at the beginning of each semester if he desires to pay cash for these items.

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 maintain 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
15	\$3.35	\$1,507
15	\$3.50	\$1,575
15	\$4.00	\$1,800
15	\$4.35	\$1,958
20	\$3.35	\$2,010
20	\$3.50	\$2,100
20	\$4.00	\$2,400
20	\$4.35	\$2,610

Students may also work off campus with permission from the Vice President for Student Services. Permission will not be granted 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, 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 anytime 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 ap-

plications, 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, 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.

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 Financial Aid 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 Financial Aid, P.O. Box 370, Collegedale, Tennessee 37315-0370, for information about and applications for financial aid. Applications received by May 30 will be given preference. Applications received after May 30 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 Financial Aid Office. Recipients of government aid must hold U.S. **citizenship** or a permanent visa. (Visa documents must be presented upon request.) 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 as maintaining a cumulative and resident grade point average of 2.0. 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 Loan and Scholarship 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. Students are expected to:

1. Complete a minimum of 25 semester hours per award year, (July 1 - June 30). This will allow up to 5 years maximum for completion of a 4-year degree, and 3 years maximum to complete a 2-year degree.
2. Maintain a minimum Southern College and cumulative GPA of 2.00.

Financial Aid Academic Probation Policy

1. Students who fail to maintain "Satisfactory Academic Progress" will be placed on financial aid probation the following semester. The recipient must appear before 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 2.00 GPA 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 Financial Aid Committee describing the circumstances which attributed 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 with a minimum 2.50 GPA, or when Southern College and overall GPA has been brought up to 2.00.

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. A student with a minimum grade point average of 2.00 will be eligible for aid. Students with an average below 2.00 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.
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) for the preceding calendar year. (Required of dependent students only).
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

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.

An official award notice will be sent to each applicant. To confirm and reserve the funds offered, the student must return the signed acceptance of the award within ten days of receipt of award letter.

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 exceed 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 pages 208 and 209.

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. NATIONAL DIRECT STUDENT LOAN
3. GUARANTEED STUDENT LOAN
4. PARENT STUDENT LOAN
5. PELL GRANT
6. STATE GRANT

7. INSTITUTIONAL SCHOLARSHIPS AND LOANS
8. PRIVATE SCHOLARSHIPS
9. PARENTS/STUDENT

Refund Formula:

Total amount of Federal and State financial aid
(excluding employment) awarded for period

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. National Direct Student Loan — To reduce the amount of debt to the student, and the recovery of funds can be re-awarded to other needy students.
3. Guaranteed Student Loan — It is to the student's advantage to reduce the amount of debt that will have to be repaid.
4. Parent Loans — These loans are obtained by parents 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 Guaranteed Student 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.

Educational benefits will be discontinued when the recipient accumulates twelve semester hours of failing and "D" grades in the major, minor, and courses required for educational certification or when he is subject to academic dismissal. (See page 28.) Benefits may be resumed only after the individual has obtained V.A. counseling and approval.

TYPES OF FINANCIAL AID

Scholarships

General Institutional Scholarships

Southern College institutional scholarships are awarded from 29 different 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.

LEADERSHIP SCHOLARSHIPS of \$400 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. A student who has held more than one leadership position will receive one leadership award of \$500.

NATIONAL ACADEMIC RECOGNITION AWARDS are awarded to finalists in the National Merit contest in the amount of \$1,200 and semi-finalists are awarded \$800. Students must enroll at Southern College for a minimum of twelve semester hours. A student who is a recipient of a NARA will not be eligible to also receive an academic scholarship. It will be one or the other—whichever is greater, plus \$100.

ACT SCHOLARSHIPS — Incoming freshmen with a composite score of 25-28 are eligible for a \$600 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 a

\$750 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. An ACT Scholarship will be given only if the student does not qualify for an Academic Scholarship.

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, Vermont, Washington, and West Virginia. Check with your state grant agency for additional information.

Loans

NATIONAL DIRECT STUDENT LOAN — Under this program, students can borrow money from the federal government, through the school. Repayment and 5 percent interest begin six 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 six percent interest begin six months after a student graduates, leaves school, or drops below half-time enrollment.

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. A student whose family adjusted gross income is \$30,000 or less may, without undergoing a financial needs test, borrow up to \$2,500 per year to a total of \$12,500 for undergraduate study. When income levels are greater than \$30,000 the student must meet a "needs" test. The federal government pays the interest on the loan while the student is in school. Repayment and 8 percent interest begin six months after a student graduates, leaves school, or drops below half-time enrollment.

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 \$3,000 per year to a limit of \$15,000. Repayment and 12 percent interest being 60 days following the date of loan disbursement.

Repayment Example

	Amount of loan	Based on	Monthly Payments*
1st year	\$3,000	5 yrs.	\$ 66.73
2nd year	\$3,000	7 yrs.	\$105.91
3rd year	\$3,000	10 yrs.	\$129.12
4th year	\$3,000	10 yrs.	\$172.16

* Monthly payment includes cumulative principle and interest.

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.

Alumni Worthy Student Fund for juniors and seniors.

Alvin Christensen Memorial Loan Fund for junior or senior biology or natural science majors.

Appalachian Nursing Scholarship Fund for nursing students from the Appalachian Mountain region.

Anton Julius Swenson Loan Fund.

Burdick Scholarship Fund.

Business Administration Scholarship Fund.

Cartinhour Foundation Scholarship and Loan Fund.

Chatlos Foundation Scholarship Fund for Florida nursing students.

Conger Memorial Fund for education majors or minors.

D. W. Hunter Scholarship and Loan Fund for theology students.

Daina Griffin Nursing Scholarship Fund.

DeWitt and Josie Bowen Scholarship Fund for graduating seniors from Bass Memorial Academy.

- Doctor Ambrose L. Suhrie Scholarship for elementary teachers.
- Dora McClellan Brown Scholarship Fund for theology majors.
- Dorothy and Harold Moody Scholarship Award for junior or senior history majors.
- Edith Munn Nursing Loan Fund for nursing students from Kentucky-Tennessee Conference.
- Edythe Stephenson Cothren Vocal Music Scholarship Fund for junior/senior voice majors or minors.
- Southern College Century II Endowment Fund.
- Frankie Collins Loan Fund for ministerial students.
- George Alden Nursing Scholarship Fund for Massachusetts nursing students.
- George B. and Olivia Dean Scholarship Fund for education majors.
- George White Scholarship Fund.
- Harry H. Goggans Scholarship Fund.
- Henson Nursing Scholarship Fund.
- Irad C. Levering Loan Fund for elementary and secondary education majors.
- Joseph Schermerhorn Memorial Loan Fund for students planning to serve as doctors, nurses, ministers, or teachers.
- K. W. Grader Nursing Scholarship Fund for Florida nursing students.
- Linda Beardsley Stevens Memorial Loan Fund for nursing students.
- Louise Hurt Memorial Scholarship Fund.
- Ludington Memorial Fund.
- Mitzelfelt Band Scholarship Fund for band members.
- 1969 Alumni Loan Fund for juniors and seniors.
- Nursing Magazine Scholarship Fund for nursing majors.
- O. D. and Anna Ruth McKee Scholarship Fund.
- Office Administration Scholarship Fund.
- Otto Christensen Fund for potential Bible instructors or theology majors.
- Paul Fisher Scholarship Fund.
- Penna S. S. Chong Memorial Scholarship Fund for Florida nursing students. (Preference for Far East resident students of Asiatic origin.)
- Reile-McAlexander Memorial Loan Fund for nursing students.
- Sanford and Martha Ulmer Scholarship Fund.
- Sudduth Memorial Fund for potential teachers.
- Tait Scholarship Fund.
- Theresa Brickman Scholarship Fund for office administration majors.
- William Iles Scholarship Fund.

THE REGISTRY

PRINCIPALS AND PRESIDENTS, 1892-1984

Principals of the Southern Industrial School

George C. Colcord	1892-1896
W. T. Bland	1896-1898
C. W. Irwin	1898-1900
N. W. Lawrence	1900-1901

Principals of Southern Training School

J. E. Tenney	1901-1908
M. B. Van Kirk	1908-1912
C. L. Stone	1912-1914
L. H. Wood	1914-1915
A. N. Atteberry	1915-1916

Presidents of Southern Junior College

Leo Thiel	1916-1918
L. H. Wood	1918-1922
Leo Thiel	1922-1925
H. H. Hamilton	1925 - Jan. 1927
M. E. Cady	Jan. 1927 - May 1927
H. J. Klooster	1927-1937
J. C. Thompson	1937-1942
D. E. Rebok	1942-1943
K. A. Wright	1943-1945

Presidents of Southern Missionary College

K. A. Wright	1945-1955
T. W. Walters	1955-1958
C. N. Rees	1958-1967
Wilbert Schneider	1967-1971
Frank A. Knittel	1971-1982

Presidents of Southern College of Seventh-day Adventists

Frank A. Knittel	1982-1983
John Wagner	1983-1986
Donald R. Sahly	1986-

BOARD OF TRUSTEES

A. C. McClure, Chairman
William Allen, Secretary

E. A. Anderson	J. C. McElroy, Jr.
Mardian Blair	Bill McGhinnis
T. K. Campbell	Ellsworth McKee
Richard Center	Denzil McNeilus
Edythe Cothren	Harold Moody
Merrill Dart	Harvey Murphy
C. E. Dudley	William Murphy
J. A. Edgecombe	Winton Preston
Robert Folkenberg	Donald R. Sahly
W. A. Geary	Clinton Shankel
M. D. Gordon	Ward Sumpter
D. K. Griffith	Tom Werner
R. B. Hairston	J. Henson Whitehead
William Hulsey	Bonnie Wilkens
William Iles	Alumni Association President
O. R. Johnson	

HONORARY TRUSTEES

Charles Fleming, Jr.	Forrest Preston
O. D. McKee	Martha Ulmer

SC EXECUTIVE BOARD

A. C. McClure, Chairman

Richard Center	Ellsworth McKee
W. A. Geary	Donald R. Sahly
D. K. Griffith	Ward Sumpter

ADVISORY COMMITTEE

William Allen	Kenneth Spears
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COLLEGE ADMINISTRATION

PRESIDENT

- Donald R. Sahly, Ed.D. (1986) President
 Jeanne Davis (1970) President's Secretary

ACADEMIC SERVICES

- William Allen, Ph.D. (1984) Vice President for
 Academic Administration

Records

- Mary Elam, M.A. (1965) Director of Records

Library

- Director of Libraries and Archivist
 Peggy Bennett, M.S.L.S. (1971) Assistant Librarian
 Lorraine Grace, M.L.S. (1970) Assistant Librarian
 Kayte 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

Teaching Learning Center

- Carole Haynes, M.Ed. (1982) . Director, Teaching Learning Center

ADMISSIONS AND PUBLIC RELATIONS

- Ronald Barrow, Ph.D. (1979) Vice President for
 Admissions and College Relations
 Merlin Wittenberg, M.Ed. (1984) Admissions Advisor

Public Relations

- Vinita Sauder, B.A. (1983) ... Director, Public Relations/Marketing

Student Finance and Accounts

- Laurel Wells (1964) Director, Student Finance
 Randall White, B.S. (1978) Director, Student Accounts

College Administration

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BUSINESS SERVICES

Kenneth Spears, M.B.A. (1963) 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

Roy Dingle, A.S. (1974) Bakery Manager, Village Market

Dan McBroom (1957) Associate Manager, The College Press

Allen Olsen (1984) Manager, The College Press

Larry Rice (1959) Superintendent, The College Press

Don Spears (1984) Manager, Supreme Broom Company

Judith Walker, B.S. (1981) Manager, Campus Shop

Charles Whidden (1984) Manager, Village Market

Computer Services

John Beckett, B.A. (1975) Director, Computer Services

Judy DeLay 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

Olson Perry, M.A. (1974) General Manager, WSMC FM90.5

STUDENT SERVICES

*Everett Schlisner, M.A. (1974) Vice President for Student Services

Residence Halls

Reed Christman, B.A. (1979) Dean of Men

Stan Hobbs, B.A. (1985) Assistant Dean of Men

Ron Qualley, B.S. (1980) Associate Dean of Men

Denise Rogers (1984) Assistant Dean, Orlando Center

Dorothy Somers, B.A. (1972) Dean of Women

Norma Swinson (1981) Dean, Orlando Center

..... Assistant Dean of Women

William Allen

Kenneth Spears

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 AND ALUMNI RELATIONS

- Jack McClarty, Ed.D. (1972, 1980) Vice President
for Development and Alumni Relations
William H. Taylor, M.A. (1958) .. Director, Endowment Campaign

COLLEGE PASTORS

- Gordon Bietz, D.Min. (1981) Pastor
James Herman, B.A. (1976) College Chaplain
G. H. (Gerry) Morgan, M.A. (1980) Youth Pastor
Rolland Ruf, B.A. (1969) Associate College Pastor
Ed Wright, M.Div. (1985) Family Ministries Pastor

Roby Birch, M.S.N., Assistant Professor of Nursing
B.S., Madison College; B.A., Union College; M.S.N., Vanderbilt
University; (1979)

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)

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.

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.

Evlyn 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.

Stan Hobbs, B.A. (1985)

Ron Qualley, B.S. (1986)

Danise Rogers (1984)

Dorothy Somers, B.A. (1972)

Norma Swinson (1981)

Assistant Dean of Men

Associate Dean of Men

Assistant Dean, Orlando Center

Dean of Women

Dean, Orlando Center

Assistant Dean of Women

FACULTY DIRECTORY

- Flora Adams, B.S., *Instructor of Nursing*
B.S., Walla Walla College; B.S. Loma Linda University. (1983)
- †William Allen, Ph.D., *Vice President for Academic Administration, Professor of Chemistry*
B.S., La Sierra College (Loma Linda University); Ph.D., University of Maryland. (1984)
- Frances Andrews, M.A., *Associate Professor of Communications*
B.A., Southern Missionary College; M.A., George Peabody College for Teachers. (1975)
- 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. (1977)
- Ben Bandiola, Ph.D., *Professor of Education and Psychology*
B.S.E., M.A., Philippine Union College; Ph.D., University of Iowa. (1984)
- Colleen Barrow, B.S., *Instructor of Nursing*
B.S., Columbia Union College. (1976)
- †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., *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., *Associate Professor of Library Science*
B.S., Southern Missionary College; M.S.L.S., Florida State University. (1971)
- Ruby Birch, M.S.N., *Assistant Professor of Nursing*
B.S., Madison College; B.A., Union College; M.S.N., Vanderbilt University. (1975)
- 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)

Faculty Directory

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- Melvin D. Campbell, Ph.D., *Professor of Education*
B.A., Union College; M.Ed., University of Tennessee; Ph.D., Purdue University. (1968)
- Ann Clark, M.A.T., *Associate Professor of English*
B.A., Southern Missionary College; M.A.T., University of Tennessee, Chattanooga. (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., *Assistant Professor of Office Administration*
B.S., Southern Missionary College; M.B.Ed., Middle Tennessee State University. (1971)
- Nancy Crist, B.S., *Instructor of Nursing*
B.S., Pacific Union College. (1982)
- Thelma Cushman, M.A., *Associate Professor of Home Economics*
B.A., Pacific Union College; M.A., Pacific Union College; M.A., Michigan State University. (1957)
- Susan Davidson, B.S., *Instructor of Nursing*
B.S., New York External Degree. (1984)
- Charles Davis, M.S.L.S., *Librarian and Archivist*
B.A., Union College; M.A., Kansas State University; M.S.L.S., University of Southern California. (1968)
- †Kenneth R. Davis, M.A., *Assistant Professor of Religion*
B.A., Emmanuel Missionary College; M.A., Andrews University; M.A., Boston University. (1970)
- Don Dick, Ph.D., *Professor of 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 Industrial Education*
B.S., Southern Missionary College; M.S., George Peabody College for Teachers. (1969)
- Debra Edgerton, B.S.N., *Instructor of Nursing*
B.S., Southern College of Seventh-day Adventists. (1984)
- 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., Assistant Professor of Physical Education
B.S., Andrews University; M.Ed., University of Tennessee, Chattanooga. (1974)
- Diane Fletcher, M.A., Assistant Professor of Home Economics
B.S., Avondale College; M.A., Pacific Union College. (1985)
- Flora Flood, M.S.N., Assistant Professor of Nursing
B.S., Columbia Union College; M.S.N., Medical College of Georgia. (1983)
- Robert Garren, M.F.A., Professor of Art
B.S., Atlantic Union College; M.F.A., Rochester Institute of Technology. (1968)
- Betty Garver, M.S.N., Associate Professor of Nursing
B.S., Union College; M.S.N., University of Tennessee. (1977)
- Philip G. Garver, M.S., Associate Professor of Physical Education
B.S., Southern Missionary College; M.S., Eastern Michigan University. (1976)
- Dorothy Giacomozzi, M.S., Associate Professor of Nursing
B.S., Union College; M.S., University of Colorado. (1979)
- Orlo Gilbert, M.Mus. Ed., Professor of Music
B.M.E., La Sierra College; M.Mus.Ed., Madison State Teachers College. (1967)
- Jerry Gladson, Ph.D., Professor of Religion
B.A., Southern Missionary College; M.A., Vanderbilt University; Ph.D., Vanderbilt University. (1972)
- 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)
- Floyd Greenleaf, Ph.D., Professor of History
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)

Faculty Directory

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- 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)
- Jan Haluska, M.A., *Associate Professor of English*
B.S., Pacific Union College; M.A., Andrews University. (1981)
- Kathy Hammond, B.S., *Instructor of Nursing*
B.S., Southern Missionary College. (1985)
- 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., *Director of Teaching Learning Center*
B.S., Southern Missionary College; M.Ed., University of Tennessee at Chattanooga. (1982)
- Ray Hefferlin, Ph.D., *Professor of Physics*
B.A., Pacific Union College; Ph.D., California Institute of Technology. (1955)
- Dorothy Hooper, M.S., *Assistant 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. (1974)
- Francis Hummer, *Instructor of Industrial Education* (1979)
- Bonnie Hunt, M.S.N., *Associate Professor of Nursing*
B.S., Loma Linda University; M.S.N., University of Tennessee. (1977)
- Kayte Hunt, M.S.L.S., *Director, ANGEL Program*
B.S., Southern Missionary College; M.S.L.S., University of Tennessee. (1976)
- 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. (1980)
- Wayne Janzen, Ed.D. *Professor of Industrial Arts*
B.S., Andrews University; M.A., Western Michigan University; Ed.D., Texas A. & M. (1967)

- Beth Jedamski, B.S., *Instructor of Nursing*
 B.S. Southern Missionary College. (1983)
- Robert Kamieneski, Ed.D., *Professor of Physical Education*
 B.S., La Sierra College; M.Ed., Boston University; Ed.D., Brigham Young University. (1980)
- Catherine Knarr, M.S.N., *Assistant to the Vice President for Academic Administration and Associate Professor of Nursing*
 B.S., Columbia Union College; M.S.N., University of Tennessee. (1974)
- Timothy Korson, M.S., *Associate Professor of Computer Science*
 M.S., Ohio University. (1984)
- Marie E. Krall, B.S., *Instructor of Nursing*
 B.S., Columbia Union College. (1973)
- 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. (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).
- Ben McArthur, Ph.D., *Associate Professor of History*
 B.A., Andrews University; M.A., University of Chicago; Ph.D., University of Chicago. (1979)
- Caroline McArthur, M.S., *Assistant Professor of Nursing*
 B.S., University of Mississippi; M.S., Emory University. (1979)
- †Jack McClarty, Ed.D., *Vice President for Development and Alumni Relations*
 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)

Faculty Directory

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- Patricia C. Morrison, M.L.S., *Assistant Professor of Library Science*
B.S., East Carolina University; M.L.S., Vanderbilt University. (1981)
- Robert R. Morrison, Ph.D., *Professor of Modern Languages*
B.A., George Washington University; M.A., Middlebury College;
Ph.D., University of Florida. (1967)
- Johanna Neuberger, B.S., *Instructor of Nursing*
B.S., Southern Missionary College. (1983)
- Laura Nyirady, M.S.N., *Assistant 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)
- 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)
- †Olson Perry, M.A., *General Manager, FM90.5 WSMC*
B.A., City College of New York; M.A., Andrews University. (1977)
- Desmond Rice, Ed.D., *Professor of Education*
B.A., Avondale College; M.A., San Francisco State University;
Ed.D., University of Southern California. (1979)
- Hazel Rice, Ed.S., *Professor of Nursing*
B.S., Columbia Union College; M.S., University of Colorado; Ed.S.,
University of Colorado. (1978)
- *E. Williams Richards, Jr., Ph.D., C.P.A., C.M.A., C.I.A., C.D.P., C.C.P.,
C.C.A., *Professor of Business Administration*
B.S., Southern Missionary College; Ph.D., Michigan State Univer-
sity. (1977)
- Evonne Richards, Ed.D., *Assistant Professor of Office Administration*
B.S., Pacific Union College; M.A., Loma Linda University; Ed.D.,
University of Tennessee. (1983)
- Arthur Richert, Ph.D., *Professor of Mathematics*
B.A., Southern Missionary College; M.A. and Ph.D., University of
Texas. (1971)
- Charlene Robertson, M.S.N., *Associate Professor of Nursing*
B.S., Southern Missionary College; M.S., University of Alabama.
(1977)
- Frances Robertson, B.S., *Instructor of Nursing*
B.S., Southern Missionary College. (1984)

- 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 E. 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)
- Daniel Rozell, M.A., *Associate Professor of Business Administration*
B.S., Southern Missionary College; M.A., Central Michigan University. (1978)
- Barbara Ruf, Ph.D., *Professor of English*
B.A., Atlantic Union College; M.A., Boston University; Ph.D., University of Tennessee. (1969)
- Don Runyan, Ph.D., *Professor of Music*
B.M.E., Union College; M.M.Voice, University of Indiana; Ph.D., George Peabody College for Teachers at Vanderbilt. (1968)
- Patricia Rushing, B.S., *Assistant Professor of Nursing*
B.S. (1982)
- †Donald R. Sahly, Ed.D., *President*
B.S., Andrews University; M.A., Andrews University; Ed.D., University of the Pacific. (1986)
- †Everett Schlisner, M.A., *Vice President of Student Services*
B.S., Union College; M.A., Andrews University. (1974)
- Lola Scoggins, M.P.H., *Assistant Professor of Nursing*
B.S., Columbia Union College; M.P.H., Loma Linda University. (1984)
- 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)
- †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 Stepanske, M.A., *Associate Professor of Education*
B.S., Andrews University; M.A., Ohio State University. (1979)

Faculty Directory

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- 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)
- Nancy Thiel, B.S., *Instructor of Nursing*
B.S., Columbia Union College. (1978)
- Cheryl K. Thompson, M.S.N., *Instructor of Nursing*
B.S., Southern Missionary College; M.S.N., University of Florida.
(1982)
- Wayne E. VandeVere, Ph.D., C.P.A., *Professor of Business Administration*
B.A., Andrews University; M.B.A., University of Michigan; Ph.D., Michigan State University. (1956)
- Steven E. Warren, Ph.D., *Assistant Professor of Chemistry*
B.S., Andrews University; Ph.D., Arizona State University. (1982)
- Erma Webb, M.S., *Assistant Professor of Nursing*
B.S., Union College; M.S., Loma Linda University. (1976)
- Larry Williams, M.S., *Associate Professor of Social Work and Family Studies*
M.S., University of Georgia. (1983)
- William Wohlers, Ph.D., *Professor of History*
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)
- Marcella Woolsey, M.A., *Instructor of Biology*
B.S., Southern Missionary College; M.A., Loma Linda University.
(1981)
- Marlene Young, B.S., *Instructor of Nursing*
B.S., Union College. (1982)

Dates in parentheses indicate the beginning year of employment at Southern College.

* Study leave

† Administration

ADJUNCT FACULTY

Education

Faculty of Collegedale Academy
 Faculty of Spalding Elementary School

Southern Union Elementary Supervisors and Superintendents:

- Carolina Conference
- Florida Conference
- Georgia-Cumberland Conference
- Gulf States Conference
- Kentucky-Tennessee Conference
- South Atlantic Conference
- South Central Conference
- Southeastern Conference

Medical Technology

Florida Hospital:

Rodney Holcomb, M.D., *Medical Director*
 Patricia Rogers, B.S., MT (ASCP), *Program Director*

Kettering Hospital:

Glenn Bylsma, M.D., *Medical Director*
 Suzanne Columbus, B.S., MT (ASCP), *Program Director*
 Mary Beth Fannon, M.A., MT (ASCP), *Academic Education Coordinator*
 Beverly Schieltz, M.S., MT (ASCP), *Clinical Education Coordinator*

Nursing

<p>Collegedale</p> <p>Wanda Bunce Carol B. Burhenn Judy Compton Donna Day Ellen Gilbert Carol J. Harris Beverly Jackson Kathy Davidson Jacobson Joe B. Lasseter Pam Lowe Jill Morgan Cindy Nipp Cheri Terrell Dotty Volz Juanita Weddle</p>	<p>Orlando Center</p> <p>Betty Barker Dorothy Brown Connie Hamilton Kathy Hinson Brucie Huffman Mary Lou Jones Marion Kierstead Gail Nausbaum Rosann Reilly</p>
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Faculty Committees

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FACULTY COMMITTEES

ACADEMIC CABINET: William Allen, *Chairman*; Mary Elam, *Division Directors*.

ABSENCE COMMITTEE: Wilma McClarty, *Chairman*; Dorothy Hooper, Ron Qualley, *Asst. Dean of Women*, Larry Williams.

ADMISSIONS COMMITTEE: Ron Barrow, *Chairman*; Gordon Hyde, Wiley Austin, Reed Christman, Helmut Ott, Dorothy Somers, Randy White, Merlin Wittenberg.

ADVISEMENT COMMITTEE: Mary Elam, *Chairman*; William Allen, Ron Barrow, K. R. Davis, Carole Haynes, Ben Bandiola, Doug Bennett, Merritt MacLafferty, Marvin Robertson, Dan Rozell, Elvie Swinson.

COMPUTER SERVICES COMMITTEE: Ken Spears, *Chairman*; William Allen, John Beckett, Melvin Campbell, Don Dick, Mary Elam, Tim Korson, Henry Kuhlman, Katie Lamb, Louesa Peters, Ron Springett, Wayne VandeVere, Laurel Wells, one student.

FACULTY AFFAIRS COMMITTEE: Floyd Greenleaf, *Chairman*; Wayne VandeVere, Ron Barrow, Peggy Bennett, Robert Kamieneski, Katie Lamb, David Smith.

FACULTY SENATE: Don Sahly, *Chairman*; William Allen, Ron Barrow, Douglas Bennett, Gerald Colvin, K. R. Davis, John Durichek, Mary Elam, Richard Erickson, Betty Garver, Jerry Gladson, Jan Haluska, Larry Hanson, Carole Haynes, Ray Hefferlin, Shirley Howard, Katie Lamb, Robert Morrison, Allen Olsen, Helmut Ott, Desmond Rice, Evonne Richards, Charlene Robertson, Barbara Ruf, *Dean of Students*, David Smith, Ken Spears, Ron Springett, Jeanette Stepanske, Elvie Swinson, Laurel Wells, Larry Williams, Marcella Woolsey, Bill Bass, Teresa Rogers.

EXECUTIVE COMMITTEE: Don Sahly, *Chairman*; William Allen, Ken Spears, *Dean of Students*, Larry Hanson, *Secretary*, Des Rice, David Smith, Jeanette Stepanske.

FINANCIAL ADVISORY COMMITTEE: Ken Spears, *Chairman*; Richard Erickson, Earl Evans, Wayne Janzen, Allen Olsen.

GENERAL EDUCATION COMMITTEE: Jack Blanco, *Chairman*; Jerry Gladson, Gerald Colvin, Cathy Knarr, Wayne Janzen, Ben McArthur, Des Rice.

HONORS COMMITTEE: Jerry Gladson, *Chairman*; Bill Wohlers, Floyd Greenleaf, Evonne Richards, Art Richert, Cecil Rolfe, Steve Warren.

INSTRUCTIONAL RESOURCES COMMITTEE: Bonnie Hunt, *Chairman*; Frank Di Memmo, Carole Haynes, Lorraine Grace, Ann Clark, Don Runyan, Mitchell Thiel.

RECRUITMENT AND RETENTION COMMITTEE: Ron Barrow, *Chairman*; Carole Haynes, K. R. Davis, *Dean of Students*, Mitchell Thiel, Wilma McClarty, Ron Qualley, Dorothy Somers, Joyce Cotham, John Durichek, Robert Morrison, one student.

SOCIAL AND RECREATIONAL COMMITTEE: Thelma Cushman, *Chairman*; Frances Andrews, Dorothy Giacamozi, Earl Evans, Nancy Thiel.

TEACHER EDUCATION COUNCIL COMMITTEE: (All ex officio). Cyril Roe, *Chairman*; William Allen, Howard Kennedy, Dean Maddock, Education Department Faculty, Dean of Students, and supervisors for student teachers for each department.

WRITING COMMITTEE: Gerald Colvin, *Chairman*; William Wohlers, Bruce Ashton, Ray Hefferlin, Duane Houck, Pat Morrison, Ron Springett, David Smith.

STUDENT SERVICES: Dean of Students, *Chairman*; Ron Barrow, Reed Christman, Helmut Ott, Dorothy Somers, Stephen Nyirady. The following members of this committee are mandated as ex officio by the Faculty Handbook: Don Dick, Edgar Grundset, James Herman, Pat Silver, Laurel Wells, and three students.

ARTIST ADVENTURE/PROGRAMS: Edgar Grundset / William Wohlers, *Co-Chairmen*; Frank Di Memmo, Earl Evans, Bob Garren, Betty Garver, Orlo Gilbert, Stan Hobbs, Steve Jaecks, Jack McClarty, Olson Perry, Dorothy Somers, Nancy Thiel, Dean of Students, and four students.

DISCIPLINE POOL COMMITTEE: Ruby Birch, Phil Garver, Art Richert, Judy Glass, Leona Gulley, Wayne Janzen, Evonne Richards, Marcella Woolsey, and four students.

FILMS SUBCOMMITTEE: Don Dick, *Chairman*; Reed Christman, Earl Evans, Shirley Howard, Robert Merchant, Lola Scoggins, Dorothy Somers, Dean of Students, and two students.

LOANS AND SCHOLARSHIP SUBCOMMITTEE: Laurel Wells, *Chairman*; William Allen, Stan Hobbs, Marie Krall, Asst. Dean of Women, Randy White, two students, and Dean of Students.

RELIGIOUS LIFE COUNCIL SUBCOMMITTEE: James Herman, *Chairman*; Norman Gulley, Larry Hanson, Stan Hobbs, Vinita Sauder, Dorothy Somers, Dean of Students, and four students.

SCREENING COMMITTEE: Pat Silver, *Chairman*; Ted Evans, Diane Fletcher, Ron Qualley, Dorothy Somers, two students, and Dean of Students.

STUDENT PERSONNEL COMMITTEE: Dean of Students, *Chairman*; Reed Christman, K. R. Davis, Earl Evans, Eleanor Hanson, James Herman, Stan Hobbs, Cliff Myers, Ron Qualley, Becky Rolfe, Dorothy Somers, and Asst. Dean of Women.

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1986

JULY

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For Reference

Not to be taken

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1986-87 ACADEMIC CALENDAR

	1986 Summer Sessions*			
	1st	2nd	3rd	4th
Registration	May 5	June 3	June 30	July 27
Freshmen Orientation				July 27
Classes begin	May 5	June 3	June 30	July 28
Late registration fee	May 6	June 4	July 1	July 28
Last day to add course/fee for class change	May 7	June 5	July 2	July 30
Independence Day Holiday			July 4	
Last day to drop and automatically receive a "W"	May 16	June 13	July 11	Aug. 8
All withdrawals after this date receive "F"	May 23	June 20	July 18	Aug. 15
Memorial Day Holiday	May 26			
Classes end	May 30	June 27	July 25	Aug. 21

* The Southern College summer term consists of four 4-week sessions. Students in attendance during the 1985-86 school year may register at any time during the week immediately preceding the session.

	1st Semester 1986-87	2nd Semester 1986-87
Faculty Colloquium	Aug. 14-17	
ACT and CLEP Exams	Aug. 22, 24	
Registration by appointment	Aug. 25, 26	Jan. 5
Freshmen Orientation	Aug. 25	
Classes begin	Aug. 27	Jan. 6
Late registration fee	Aug. 27	Jan. 6
Fee for class change	Sept. 3	Jan. 14
Last day to add course	Sept. 9	Jan. 20
Senior Class organization	Sept. 25	Jan. 28
Mid-term	Oct. 16	Feb. 26
Mid-semester vacation	Oct. 17-19	Feb. 27 - Mar. 8
Alumni Homecoming	Oct. 31 - Nov. 2	
Last day to drop and automatically receive a "W"	Oct. 30	Mar. 12
Advisement Period	Nov. 3-14	Mar. 16-27
Thanksgiving Vacation	Nov. 26-30	
Senior deadline for correspondence/incompletes	Dec. 3	Apr. 6
All withdrawals after this date receive "F"	Dec. 5	Apr. 10
College Day		Apr. 5, 6
Semester E		Apr. 27-30
Commence:		May 3
Christmas		

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