The thistle is the historic national flower of Scotland, the birthplace of a significant part of Presbyterianism. As the college of the Reformed Presbyterian Church, Evangelical Synod, Covenant has always incorporated the thistle in its symbols.
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CALENDAR AND MAP Inside Back Cover
Covenant College is a Christian liberal-arts institution of higher learning, operated by a board of trustees elected by the General Synod of the Reformed Presbyterian Church, Evangelical Synod. The College accepts the Bible as the Word of God written, and interprets it in the light of the summary contained in the Westminster Confession of Faith and Catechisms.

Our purpose is expressed in the phrase, Christian liberal arts.

We use the adjective "Christian" because we believe that all of life is governed by religious presuppositions. Furthermore, the term "Christian" is used to define the particular frame of reference from which we approach the liberal arts and by which we judge the effectiveness of our educational program. Because we take seriously the doctrine of creation, we view all facts as significant and the disciplines of learning and inquiry imperative. Because we take seriously the doctrine of redemption, we seek to give such direction to the disciplines of inquiry and learning that will lead to man's complete reconciliation to God through Christ. And, because we take seriously the Kingdom of God, we seek to confront each member of the College community with the Lordship of Jesus Christ and His right to rule in every area of life.

The College has the following specific objectives:

(1) To help students pursue learning in every academic area with a spirit of inquiry and fairness including those views which are antithetic to Christianity;

(2) To help students develop a deep sense of responsibility to God and to society, and to discharge this responsibility in a program of activities which includes service commitments, cultural development, and physical work;

(3) To help students communicate effectively, especially in writing and speaking;

(4) To help students develop themselves morally and physically in a variety of athletic programs.
Covenant College aspires to maximum growth and development of individual students. The Faculty is small enough, excellent enough, and dedicated enough to make this objective a reality.

We feel that we can serve God best by serving collegians and serve collegians best by serving God. The full achievement of this goal requires motivated students who want to get the most from the total resources offered them by any college. Please keep these thoughts in mind as you look through these pages.

Marion D. Barnes
President
FACULTY

(Year in parenthesis indicates date of joining Covenant's faculty)

ANDERSON, Charles W., Assistant Professor of Bible (1964)
  Th.M. Candidate, University of the South; B.D., Faith Theological Seminary; A.B., Wheaton College

BARKER, Nicholas P., Associate Professor of English (1966)
  Ph.D. and M.A., University of Minnesota; A.B., Princeton University

BARKER, William S., Associate Professor of History (1964)
  Ph.D. Candidate, Vanderbilt University; M.A., Cornell University; A.B., Princeton University; B.D., Covenant Theological Seminary

BARNES, Marion D., Professor of Chemistry (1965)
  Ph.D. and A.M., Columbia University; B.S., University of Arkansas

BOWMAN, Walter L., Instructor in Physical Education (1967)
  Graduate Student, Michigan State University; B.S., Gordon College

CLARK, Raymond W., Instructor in Bible (1966)
  Th.M. Candidate, Trinity Evangelical Divinity School; B.D., Covenant Theological Seminary; B.R.E., Detroit Bible College

DAMERON, Raymond H., Assistant Professor of Physics (1964)
  M.S., University of Tennessee at Chattanooga; B.S., Pennsylvania Military Academy; B.D., Covenant Theological Seminary

DONALDSON, Charles W., Assistant Professor of Chemistry (1967)
  Ph.D., University of Pennsylvania; B.S., Wheaton College

GILCHRIST, Paul R., Assistant Professor of Bible (1967)
  Ph.D., Dropsie College; B.D., Faith Theological Seminary; B.A., Columbia Bible College

Hamm, John, Assistant Professor of Music (1964)
  Graduate Student, Florida State University; Mus.M., Eastman School of Music; Mus.B., John Brown University

HELLER, Karl H., Assistant Professor of History (1967)
  Ph.D. Candidate, University of Cincinnati; A.M., University of Pennsylvania; A.B., Mount Allison University; Th.M. and B.D., Pine Hill Divinity Hall

HUGHES, H. Harrison, Assistant Professor of Mathematics (1962)
  A.M. and B.S., Washington and Jefferson College

HUISMAN, Gary B., Librarian (1966)
  M.S. in Library Science, Western Michigan State University; A.B., Calvin College

LOTHERS, John E., Associate Professor of Biology (1966)
  Ph.D., University of Kansas; M.S., Kansas State University; B.S., Oklahoma State University

MAGEE, Noel H., Instructor in Music (1967)
  Graduate Student, Indiana University; M.M., Indiana University; B.M., Wheaton College

NUERMBERGER, Robert M., Associate Professor of Psychology (1967)
  Ph.D., Michigan State University; A.B., Houghton College; B.D., Westminster Theological Seminary

OLNEY, H. Omar, Professor of Biology (1968)
  Ph.D. and M.S., University of Delaware; B.S., John Brown University; Th.M., Dallas Theological Seminary
PITCHER, Leonard S., Assistant Professor of Psychology (1964)
   A.M., New York University; A.B., Colgate University; Th.B., Westminster Theological Seminary

POKRYWKA, John F., Instructor in Philosophy (1969)
   M.A. Candidate, University of Pennsylvania; B.D., Westminster Theological Seminary; B.A., Shelton College

SANDERSON, John W., Professor of Philosophy, and Scholar in Residence (1963)
   A.M., University of Pennsylvania; A.B., Wheaton College; S.T.M. and B.D., Faith Theological Seminary

SCHMIDT, Collyn F., Instructor in Nursing (1959)
   M.S., Washington University; B.S. and R.N., University of Iowa; M.R.E., Faith Theological Seminary

SCHMIDT, Rudolph F., Assistant Professor of History (1955)
   M.A.T., University of Chattanooga; A.B., Highland College

STEENSMA, Geraldine J., Assistant Professor of Education (1968)
   M.A., Columbia University Teacher’s College; B.S. in Education, Slippery Rock State College

TAYLOR, Emlee, Instructor in French (1967)
   A.M. Candidate, Indiana University; A.B., Wheaton College

VANDER ARK, Nelle A., Assistant Professor of English (1969)
   A.M., University of Michigan; A.B., Calvin College

YOUNG, John M. L., Associate Professor of Bible and Missions (1967)
   Th.M., Calvin Theological Seminary; B.D., Faith Theological Seminary; A.M. and A.B., Acadia University

VISITING LECTURERS: Dave H. Skaer, M.A. (Michigan State University), Psychology; Mervin L. Ziegler, M.A. (Bowling Green State University), Speech

ASSISTANTS: Joel Belz, Graduate Student (University of Iowa), Philosophy; Roxie C. Graf, M.A. (Columbia University Teachers College), Education; Marna B. Magee, M.S. in Ed. (Northern Illinois University), Music; Laurence H. Withington, Graduate Student (University of Tennessee at Chattanooga), Psychology

ADMINISTRATION

President: Marion D. Barnes, Ph.D., LL.D.
Vice-President for Business Affairs: Richard Steensma, M.S.
Dean of the Faculty: William S. Barker, M.A., B.D.
Assistant Dean of the Faculty: John M. L. Young, Th.M., A.M., D.D.
Registrar and Director of Admissions: Rudolph F. Schmidt, M.A.T.
Dean of Students: Paul R. Gilchrist, Ph.D., B.D.
Director of Development: Allen Duble
Dean of Women: Collyn F. Schmidt, M.S., M.R.E.

ADMINISTRATIVE DEPARTMENT HEADS
G. Craig Burdett—Manager of Accounting
Joseph Coggeshall—Superintendent of Buildings and Grounds
Robert Fretts—Manager of Office Services
Reva Riley—College Hostess

FULL-TIME COLLEGE STAFF
Agness Barr—Secretary to the President
Ronnie Blevins—Maintenance Man
Henry Burchard—Maintenance Electrician
Patricia Cochran—College Nurse
Gladys Coggeshall—Receptionist and Accounts Payable
James Cox—Dean of Men
Phyllis Crooks—Assistant Manager of Accounting
Linda Deffenbaugh—Secretary to the Development Office
Paul Gordon—Supervisor of Security
William Graf Jr.—Special Projects Engineer
Rosemay Harrison—Library Clerk
Harvey Hollingsworth—Estimator-Planner
Robert Holmes—Supervisor of Custodial Facilities
Shirley Meffert—Secretary to the Business Office
Fern Moore—Secretary to the Director of Admissions and Dean of the Faculty
John R. Moore—Supervisor of Maintenance and Operation
Darlene Reynolds—Assistant Housekeeper
Willard Sims—Supervisor of Grounds
Marie Sims—Supervisor of Duplication
Stephen Sligh—Alumni Representative
Margaret Vinson—Purchasing Agent
Mary Webb—Secretary to Buildings and Grounds
Arline Wetzel—Assistant to the Deans

PART-TIME COLLEGE STAFF
Margaret Heller—Tuck Shoppe
Lamar Massey—Grounds Maintenance Man
BOARD OF TRUSTEES

Class of 1970

MAX E. BROWN—District Sales Manager, Detrex Chemical Industries, Inc., St. Louis, Missouri
THOMAS G. CROSS—Pastor, Mitchell Road Presbyterian Church, Greenville, South Carolina. A.B., Hampden-Sydney College; B.D., Faith Theological Seminary; D.D., Covenant Theological Seminary
RICHARD W. GRAY—Pastor, Calvary Reformed Presbyterian Church, Willow Grove, Pennsylvania. A.B., Wheaton College; B.D., Westminster Theological Seminary; D.D., Wheaton College
WILLIAM P. SHAY—Production Manager, Garlock, Inc., Plastics Division, Camden, New Jersey
FRANCIS R. STEELE—Home Secretary, North Africa Mission. A.B., Cornell University; Ph.D., University of Pennsylvania
EARL WITMER—Branch Manager, Equity Funding Corporation, Grand Rapids, Michigan

VERNON C. PIERCE, Chairman—Vice President and General Manager, Plastics Division, Stauffer Chemical Corporation, New York, New York. B.S., Wheaton College; M.S., Brooklyn Polytechnic Institute
R. P. ROBBINS—Design Engineer, FMC Corporation, Lakeland, Florida
JEFF STEINERT—Vice-President for Business and Finance, Duke University Medical Center, Durham, North Carolina

Class of 1971

DAVID ALEXANDER—Pastor, Second Street Presbyterian Church, Albemarle, North Carolina. B.A., Northwestern College; B.D., Covenant Theological Seminary
JAMES J. KAUFMANN—Electrical Engineer, Huntsville, Alabama. B.S.E.E., Purdue University
NELSON M. KENNEDY—General Practice, Enon Valley, Pennsylvania. B.S., Lehigh University; M.D., Temple University
DANIEL E. McELWAINE—Assistant Vice President and Office Manager, The York Bank and Trust Company, York, Pennsylvania
P. ROBERT PALMER—Pastor, Bethany Reformed Presbyterian Church, New Castle, Delaware. A.B., Wheaton College; B.D., Covenant Theological Seminary

WALTER A. WALSTRUM—Plant Superintendent, N.V.F. Company, Newark, Delaware.

Class of 1972

JAMES L. ALSTON—General Surgeon, Memphis, Tennessee. M.D., University of Tennessee Medical School. Member, American Board of Surgery, American College of Surgeons
FRANKLIN S. DYRNESS—President and Administrator, The Quarryville Presbyterian Home, Quarryville, Pennsylvania. B.S., Wheaton College; B.D., Westminster Theological Seminary; D.D., Wheaton College
GRAHAM D. GUTSCHE—Physicist, U.S. Naval Academy, Annapolis, Maryland. B.S., University of Colorado; M.S., University of Minnesota; Ph.D., Catholic University of America
W. EDWARD LYONS—Pastor, Covenant Evangelical Presbyterian Church, Chatsworth, California. Ph.B., Wheaton College; B.D., Faith Theological Seminary
WILLIAM A. MAHLOW—General Secretary, World Presbyterian Missions Inc. A.B., Princeton University; B.D. Faith Theological Seminary
ROBERT G. RAYBURN—President, Covenant Theological Seminary, St. Louis, Missouri. A.B., Wheaton College; Th.B. and Th.M., Presbyterian Theological Seminary of Omaha; Th.D., Dallas Theological Seminary
DONALD A. SEMISCH, Esq.—Attorney-at-Law, Willow Grove, Pennsylvania. A.B., Wheaton College; LL.B., University of Pennsylvania Law School

Class of 1973

JAMES L. ALSTON—General Surgeon, Memphis, Tennessee. M.D., University of Tennessee Medical School. Member, American Board of Surgery, American College of Surgeons
FRANKLIN S. DYRNESS—President and Administrator, The Quarryville Presbyterian Home, Quarryville, Pennsylvania. B.S., Wheaton College; B.D., Westminster Theological Seminary; D.D., Wheaton College
GRAHAM D. GUTSCHE—Physicist, U.S. Naval Academy, Annapolis, Maryland. B.S., University of Colorado; M.S., University of Minnesota; Ph.D., Catholic University of America
W. EDWARD LYONS—Pastor, Covenant Evangelical Presbyterian Church, Chatsworth, California. Ph.B., Wheaton College; B.D., Faith Theological Seminary
WILLIAM A. MAHLOW—General Secretary, World Presbyterian Missions Inc. A.B., Princeton University; B.D. Faith Theological Seminary
ROBERT G. RAYBURN—President, Covenant Theological Seminary, St. Louis, Missouri. A.B., Wheaton College; Th.B. and Th.M., Presbyterian Theological Seminary of Omaha; Th.D., Dallas Theological Seminary
DONALD A. SEMISCH, Esq.—Attorney-at-Law, Willow Grove, Pennsylvania. A.B., Wheaton College; LL.B., University of Pennsylvania Law School
WALTER A. WALSTRUM—Plant Superintendent, N.V.F. Company, Newark, Delaware.
Scholar in Residence

The Board of Trustees has this year instituted the position of Scholar in Residence for the sake of enriching Covenant's teaching and scholarly contribution by freeing a professor from a part of his normal responsibilities in order to enable him to engage more in research and writing.

The occupant of this position is Dr. John W. Sanderson Jr., Professor of Philosophy and former Dean of the Faculty. As Dean, teacher, and minister of the Word of God, Dr. Sanderson has commanded the respect of fellow faculty members, students, and the general public, who all rejoice in the prospect of the fruits of his further scholarly pursuits.
"Remember that the finest educational system from grammar school to university, the system that produced some of the greatest and strongest minds in the Western world, was established by the poorest country of Europe and supported, in the proud phrase, 'on a little oat meal.' I refer to Scotland after the Reformation. This miracle the Scots accomplished by the simple expedient of knowing what they wanted to do, and doing it."

This statement by Jacques Barzun† expresses much of the heritage which Covenant College represents. Like a fortress on the top of Lookout Mountain, viewing both the scenic handiwork of God and the productive industry of man in Chattanooga, Tennessee, from the northwest corner of Georgia, Covenant seeks to continue and develop the principles of John Knox and the Scottish Presbyterian Reformers. Now in the midst of the most affluent society the world’s history has known, the college still looks to God for miracles, thus emphasizing at the same time man’s responsibility and the over-spaying sovereignty of God’s grace.

Knox stressed the fullest possible education of every person, so that each individual might develop his gifts from God to the greatest extent in order to serve both God and society. Above all it was necessary to be able to read and understand the Bible, God’s written word, and the system of doctrine set forth in it. In addition, in order to live out the truth of the word and communicate it to the world, it was necessary to understand oneself, one’s fellow man and his ideas, society, and the world of nature. This heritage thus provides the basis for a Christian liberal-arts college to know what it is doing, and to do it.

†"Money and the Man," Church History, XXXII, No. 2 (June 1963), 129.
CHRISTIAN SERVICE

Covenant's education thus is designed to be not merely theoretical. While Christ's disciples needed thorough instruction to prepare them for the fullest possible service, this preparation was not divorced from opportunities for service itself. Under the Student Council, a Christian Service Council seeks to provide opportunity for all students to be active in gospel teams, Bible classes, musical testimony, and social work. One's service to Christ and one's neighbor can also be developed in a variety of extracurricular activities described in a separate section of this catalog. In addition, the entire college community regularly assembles for worship in a daily chapel service of one-half hour.

STANDARDS OF CONDUCT

The Spiritual Motive. Because Covenant College is a Christian institution, it desires to provide and maintain an atmosphere which is thoroughly conducive to the spiritual growth of the students, some of whom may be more mature in their spiritual lives than others. A standard of conduct based upon the Scripture is, therefore, desirable and necessary to provide the proper environment for this growth.

All of the activities of Christians should be subordinated to the glory of God. The Christian's body is the temple of the Holy Spirit and must therefore be treated as such. The Christian should be aware that the stewardship of his time, talents, and resources affects his testimony before God and men. He must avoid any practices which would cause a loss of personal fellowship with Christ or make him less sensitive to his own sin or the needs of a lost world about him.

But also, the Christian must realize that the Scripture teaches that many practices, which may not be intrinsically evil, can and do become a stumbling block to others and
therefore must be avoided. In an institution where it is necessary to meet the needs of all, certain restrictions must be laid down which might never be necessary in the individual's own personal or family life. The student at Covenant College, however, is expected cheerfully and voluntarily to abide by the regulations which have been made for the good of all. It should be clearly understood that in establishing these regulations for the college life there is no thought of judging others who might engage in some of the practices which are not permitted the students either on or off the campus.

The Specific Regulations. The act of registration is considered a pledge on the part of the student to abide by the rules and regulations of the administration and faculty. Attendance at Covenant is always a privilege, and not a right.

In sensing the need for spiritual growth in the lives of all members of the College community, and in attempting to provide the most conducive atmosphere for this growth, all members of the Covenant community (faculty, staff, and students) are asked:

(1) To seek in all things to live in conformity to the moral law of God as set forth in the word of God; and

(2) To abstain from alcoholic liquors, smoking or any use of tobacco, dancing, and gambling. Because the motion picture is an area in which students must often make the most difficult choices, the Dean of Students, Faculty Advisers, and the Student Council regard it as their responsibility to counsel students concerning the principles which guide the selection of motion pictures to attend. This counseling responsibility is one of education, guidance, and admonition, not one of legislation.

Although these regulations may seem arbitrary to some and unnecessary to others, experience has led us to believe that a more happy, harmonious campus life will result if these practices, so detrimental to many, are omitted. Of course, their mere omission will not produce spirituality, but the heart motivating such omission will provide a proper atmosphere for spiritual development.

Detailed regulations concerning student life are published in the Student Handbook.

**CARS ON CAMPUS**

First-semester freshmen, with the exception of day students who must supply their own transportation to the campus, are not normally permitted to keep cars on the campus. Second-semester freshmen who are not on probation and who are maintaining a C average, and all other students may bring cars to the campus. Everyone must register motor vehicles with the office of student affairs and the business office during the first week of each semester and must display the identifying sticker obtainable upon payment of the auto registration fee (see fees and expenses).

All students are required to show proof of adequate insurance coverage before they will be allowed to use their cars on campus.

Parking violations on campus drives and parking lots are penalized by fines which are collected by the business office.

Except in unusual circumstances approved by the student aid committee, students maintaining cars while in college are not eligible for most scholarships.
THIS NEW LIBRARY-CLASSROOM BUILDING is one of three major building projects scheduled for the current school year. A new physical education building and a new five-story men's dormitory are far along in the planning stages. All three new buildings should be ready for student use early in the school year 1971-72.
Covenant College currently has correspondent status with the Southern Association of Colleges and Schools and is proceeding toward the goal of regional accreditation.

**ADMISSION**

A student is admitted to Covenant College by certificate from his secondary school, by transfer, or, in special cases, by examination. The Committee on Admissions, in evaluating the records of the applicants, seeks to select students who give evidence of possessing the particular qualities of mind and purpose which an education in a Christian liberal-arts college requires and whose personal qualifications give assurance that they will be responsible and contributing members of the college community. This means that a student must be an evangelical Christian, offering a credible profession of faith in Jesus Christ as Savior and Lord.

Covenant College was approved for nonimmigrant students on September 23, 1956, by the District Director of the Immigration and Naturalization Service. Covenant College is also approved for the training of ex-service personnel under public laws. Covenant College meets the criteria established by the United States Office of Education for listing in its Higher Education directory. A policy of transfer of Covenant College credits has been arranged with local state universities.

**Application for Admission.** Application for admission must be made on the official form obtainable from the Director of Admissions. A fee of ten dollars must accompany each application. This fee is not refundable, since it covers only the expense of processing an application, evaluating credentials, and establishing a permanent record. The student should request his secondary school to send its official transcript of his record directly to the Admissions Office, and a transfer student should also request official transcripts to be sent directly to the Admissions Office from any college or other educational institution in which he has earned credits. Scores for the Scholastic Aptitude Test (SAT) must be forwarded to the Admissions Office. The code number for Covenant College is 6124 for SAT scores.

Each student must also submit with his application for admission a physician's certificate on forms furnished by the College.

**Admission from a Secondary School.** A candidate for admission should be a graduate of an approved secondary school. The student should have at least 15 units, each unit representing one year of satisfactory work in a subject. It is recommended that the units be distributed as follows:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>3 or 4</td>
</tr>
<tr>
<td>Mathematics (algebra, trigonometry, geometry)</td>
<td>2</td>
</tr>
<tr>
<td>One foreign language</td>
<td>2</td>
</tr>
<tr>
<td>History and social studies</td>
<td>2</td>
</tr>
<tr>
<td>Natural science</td>
<td>2</td>
</tr>
<tr>
<td>Electives</td>
<td>4 or 3</td>
</tr>
</tbody>
</table>

Not more than four units in vocational or commercial subjects are acceptable. However, a course in personal typewriting is recommended.

Candidates for admission should present marks of A, B, or C in secondary school subjects and a combined score of 800 or higher in the SAT examinations.

Since the primary concern is evidence that a student is prepared to carry on college work, the Committee on Admis-
sions is willing to consider the applications of students whose preparation may vary from the usual pattern. For instance, students may be admitted if they are graduates of an approved secondary school, or if they have equivalent education representing a four-year course of study, provided they rank above average in a battery of tests given at Covenant College.

Honorably discharged military personnel who attain a satisfactory score either on the General Education Development Tests administered in the service, or on a battery of tests given at Covenant College, may also be admitted. The College tests include such specific subjects as English and mathematics as well as general scholastic aptitude.

**Admission of Transfer Students.** Students with satisfactory records from other colleges or educational institutions of approved standing will, providing the courses have been completed with a grade no lower than a C, ordinarily be granted transfer credit. The Admissions Committee will also consider admitting a few transfer students each year who are on current academic probation in other institutions, provided there is ample evidence that a second academic opportunity is warranted.

Transfer students from non-accredited institutions will receive conditional credit for courses taken in those institutions. They will be required to maintain an acceptable academic standing in Covenant College for a full semester before conditional transfer credit becomes final. Transfer students may, with the consent of department heads, be excused from certain required courses for which they have had equivalent general subject matter.

No student admitted from another institution will be eligible for graduation from Covenant College until he has completed a minimum of 30 academic units in this institution.

**Special Students.** The College will admit as special students mature persons who do not wish to work for a degree because of personal objectives or because of irregularities in qualifications. Such students must submit satisfactory records of education and experience and obtain the approval of the chairman of the department in which the courses are to be taken. Special students will not receive college credit. They will be required to pay the regular tuition fees.

**Auditors.** Persons who do not wish to register for credit or as special students may be permitted to register as auditors under the following conditions: that they (1) pay the tuition charges for the courses in which they seek enrollment and the regular fees (no additional fee for students registered for a full-time credit load); (2) obtain the consent of the instructor; and (3) audit only courses for which there are adequate classroom and laboratory facilities. Graduates of Covenant College and Covenant Theological Seminary may audit courses without tuition charge, unless they wish to apply credit toward another degree. All permissions and registrations for auditing courses shall be filed in the Registrar’s Office.
**REGISTRATION**

*Orientation.* During the first week of the fall term, new students arrive on campus, ahead of upperclassmen, for a special program of orientation. In this period, they take achievement and placement tests, attend lectures on student life and traditions, become acquainted with campus facilities, receive pre-registration counseling, participate in social gatherings, and complete their registration.

As a continuing part of the new student's orientation to college life, permissions for off-campus weekends or overnight visits will not be granted until the fifth weekend after registration.

*Registration Rules.* All students will be expected to register during the regular registration periods at the beginning of each semester. Late registration will entail a fee of $10.00.

A student is not considered fully registered until he has paid the entire amount of his semester's charges.

The tenth day of classes in each semester is the last day it is possible to register for full credit in any course. All work missed must be made up.

*Course Load.* Regularly enrolled students will be expected to carry 15 credit units per semester. Students will not be allowed to register for more than 19 units without special permission. Those students whose classwork is below standard, or who find it necessary to be employed for more than 20 hours of work each week, may be required to reduce their programs of study.

*Dropping or Changing Courses.* A student who wishes to withdraw from an individual course, or to change his enrollment from one course to another, must have the express permission of the Registrar. In general a student may not withdraw from a course after the end of the fifth week without receiving an F for the course. An exception may be made if his grade average at the time of withdrawal has been C or higher. In such cases, at the discretion of the instructor, no grade may be reported and no credit given. No student will be allowed to change courses after the tenth day of class in any semester. A fee will be charged for all class changes unless the circumstances requiring the change are beyond the control of the student.

*Withdrawal from the College.* Students desiring to withdraw from school before the end of a semester must notify the Registrar in writing. For refunds see page 50.

**TESTING PROGRAM**

During the orientation period in the fall all entering freshmen are required to take the Covenant College placement tests. Students with low scores will be required to take reduced academic loads. Modern language study done in secondary school will be evaluated by testing, and credit and placement toward fulfillment of Covenant's language requirement will be determined accordingly.

Before graduation most seniors will be required to take the Graduate Record Examination Aptitude Test. Those students who have majored in biology, chemistry, English, history, music, philosophy, and psychology, or who have concentrated in mathematics and physics, may also take the special tests in the fields of their specialization, now required by many graduate schools.

Seniors majoring in certain fields will also be required to take comprehensive department examinations.

**SCHOLASTIC STANDARDS**

One of the criteria for the granting of the Bachelor of Arts, the Bachelor of Science, and the Bachelor of Music degrees is the satisfactory completion of required courses with a grade point average of 1.0 in all subjects.

*The Credit and Grading System.* A unit is the amount of credit given for attendance in class for a period of fifty-five minutes once a week throughout the semester.

A *grade point* is a measure of quality assigned to or withheld from units of credit according to the system of grades in force in the college.

Grades are assigned as follows:

A means SUPERIOR and carries 4 grade points per unit of credit.

B means GOOD and carries 3 grade points per unit of credit.

C means AVERAGE and carries 2 grade points per unit of credit.

D means PASSING but inferior, and carries 1 grade point per unit of credit.
F means FAILING and carries no grade point.
INC means INCOMPLETE and indicates that part of the required work for the semester has not been completed. Such work must be completed within eight calendar weeks after the close of the semester or it will be recorded as incomplete and averaged as failure.
The grade assigned after the removal of an Incomplete will not be higher than C unless, in the opinion of the Registrar after consultation with the instructor, the original Incomplete was assigned because of circumstances beyond the control of the student.

The academic standing of all students is reported to the Dean of Students at the middle of each semester.

Proficiency in English. Instructors in all departments of Covenant College expect the written work of students to be in clear and correct English and to show competence in the organization and development of ideas. Therefore any student earning an F in English composition will retake the course, and any student turning in to any faculty member, in any course, material that is unsatisfactory in its writing will be referred to the chairman of the English department for corrective work.

Probation. A student whose cumulative grade-point average is unsatisfactory will be placed on academic probation, a warning that the student is not making satisfactory progress toward a degree. Specific regulations will be found in the Student Handbook.

Absence and Tardiness. All students are expected to attend classes and chapel regularly. Absence from classes in any course will affect the quality of work in the course and ultimately affect a student's academic standing. The specific regulations concerning absences are printed in the Student Handbook.

Classification of Students. Students who have at least 15 acceptable units of entrance credit are classified as FRESHMEN.
SOPHOMORES must have at least 26 units with a grade-point average of 1.5.
JUNIORS must have at least 58 semester units with a grade-point average of 1.7.
SENIORS must have at least 90 semester units with a grade-point average of 1.9.

Scholastic Honors. The Dean's List, which is announced at the close of each semester, contains the names of all students who have taken 14 or more hours with a grade-point average for the semester of 3.30, with no courses incomplete, and with no mark below C in any academic course.
Seniors who have been on the Dean's List each semester continuously since their freshman year or whose cumulative grade-point average is 3.50 will be excused from second semester final examinations, except in their major field if a department comprehensive examination is required.
Students who maintain a grade point average of 3.50 throughout their college course will be graduated cum laude. Those who maintain an average of 3.75 will be graduated magna cum laude. Those who maintain an average of 3.90 will be graduated summa cum laude. Students must be in residence for at least two full years to qualify for graduation honors.
GENERAL REQUIREMENTS FOR GRADUATION

The Bachelor of Arts Degree. Upon recommendation of the faculty and approval by the Board of Trustees, the degree of Bachelor of Arts is conferred upon students who have met the following requirements for graduation:

1. A minimum of 126 credit units.
2. A grade point average of 2.0.
3. The fulfillment of all basic requirements.
4. At least 40 units in upper-division courses.
5. Compliance with all requirements in the major field.
6. No grades below C in the field of the major.
7. A residence of one year and the completion of the last 30 units at Covenant College, with the exception that students in residence for more than one year may complete 9 of the 30 units at other approved colleges.
8. The payment of all bills and the return of all equipment and library books.
9. The satisfactory completion of all required Graduate Record Examinations.

The Bachelor of Music Degree. Upon recommendation of the faculty and approval of the Board of Trustees, a student may receive the degree of Bachelor of Music by meeting the following requirements for graduation:

1. A minimum of 126 credit units.
2. A grade-point average of 2.0.
3. Compliance with the requirements established by the department.
4. No grades below C in the major field.
5. A residence of one year and the completion of the last 30 units at Covenant College, with the exception that students in residence for more than one year may complete 9 of the 30 units at other approved colleges.
6. The payment of all bills and the return of all equipment and library books.

SPECIFIC REQUIREMENTS FOR GRADUATION

Because the faculty believes that a liberal arts education should be broad and inclusive, involving the student with ideas and values of continuing concern and providing him with historical and spiritual perspectives against which to view the complex problems of our society, the college has set a number of basic requirements for graduation.

Core Courses. Certain courses are required of all students, except those in special programs:

Recommended distribution of core courses:

<table>
<thead>
<tr>
<th>Freshman</th>
<th>Sophomore</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition</td>
<td>Literature or Music C 33</td>
</tr>
<tr>
<td>Western Civilization</td>
<td>Public Speaking</td>
</tr>
<tr>
<td>Bible</td>
<td>Christian Doctrine</td>
</tr>
<tr>
<td>Science *</td>
<td>Foreign Language</td>
</tr>
<tr>
<td>Physical Education</td>
<td>Logic or Mathematics</td>
</tr>
<tr>
<td>Electives</td>
<td>General Psychology</td>
</tr>
<tr>
<td></td>
<td>Physical Education</td>
</tr>
</tbody>
</table>

Students must make a selection in each of the following groups:

(A) FOREIGN LANGUAGE

- C 12-15 Greek
- C 16-19 German
- C 20-23 French
- C 24-27 Spanish

(B) SCIENCE

- C 31-32 Introduction to Physics
- C 40-41 General Biology
- C 42-43 General Chemistry
- C 44-45 Modern Concepts of Natural Science
- C 46-47 Elements of Astronomy and Geology and Evolution and Biological Adaptation

(C) MATHEMATICS OR LOGIC

- C 30 Fundamentals of Mathematics
- C 34 Logic

(D) LITERATURE OR MUSIC

- Any upper-division literature course
- C 33 Introduction to Music

Grand Total | 63
Junior

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foreign Language</td>
<td>3</td>
</tr>
<tr>
<td>Major Course Requirements and Electives</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

Senior

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Philosophy of the Christian Faith</td>
<td>2</td>
</tr>
<tr>
<td>Major Course Requirements and Electives</td>
<td>13</td>
</tr>
<tr>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

*A student electing foreign language would probably delay science until his junior year. A student planning concentration in mathematics, physics, or chemistry, will register for Mathematics 151-152 as a freshman.

A student planning a music major will register for Applied Music as a freshman. A student planning a philosophy major will register for Introduction to Physics or Modern Concepts of Natural Science.

Majors in natural sciences and in the Bachelor of Music program, as well as the programs in education and in nursing, call for careful planning from the freshman year in order to assure fulfillment of all requirements and prerequisites. Be sure to see the specific requirements under the appropriate departments.

**SUMMER SCHOOL**

Certain core courses and some other courses are ordinarily offered during a summer session of six weeks’ duration. Undergraduate students from Covenant College or from other institutions will be welcomed for a limited number of courses which are offered on the basis of demand. This not only provides opportunity for students currently enrolled in the college to make up deficiencies, earn extra credit, or take required units in order to lighten their loads during the regular semesters; it also offers an opportunity for students enrolled in secular colleges and universities to obtain distinctively Christian instruction.

The summer school also meets the needs of high school graduates who are deficient in requirements for college admission or for Covenant College students on academic probation. A maximum of six hours’ credit may be earned during the summer session.

**MAJOR PROGRAMS**

Covenant’s curriculum is now organized under six departments of instruction: Bible and Philosophy, offering major programs in Bible, missions, and philosophy; History and Social Sciences, offering majors in history and social sciences; Languages and Literature, offering a major in English and courses in French, German, Greek, and Spanish; Music, offering a major in music and a Bachelor of Music degree program; Natural Sciences and Mathematics, offering majors in biology, chemistry, and natural science with concentration in biology, chemistry, mathematics, or physics; and Psychology and Education, offering a major in psychology. programs in elementary and secondary education and in nursing, and courses in physical education. For specific major requirements, see descriptions under the appropriate departments.

**NUMBERING OF COURSES**

The first digit of a course number indicates the class level of students to whom it is open, with the exception of those prefaced by a C, which are core courses.

Courses numbered in the 100’s are open to freshmen, those in the 200’s are open to sophomores, and so forth. Permission to take sophomore courses may be granted to freshmen provided they have met the prerequisites.

Junior and senior courses (numbered in the 300’s and 400’s) are upper-division courses and, in general, are open only to those who have attained junior standing. In some instances sophomores, if they have the prerequisites, may be granted permission to take an upper-division course.

The college reserves the right to withdraw any course.

Many courses listed in the catalog are offered in alternate years. The schedule of classes for any given semester will be issued prior to registration. Brackets [ ] surrounding a course title indicate a course not being offered during the current year.

It is not possible to announce at the publication date of this catalog all the courses (and their professors) which may be offered in the current year. Where possible, this information has been given.
The majors in Bible and in Missions are designed for pre-seminary students and for those who desire to prepare for active leadership in the church’s teaching, missionary, and governing functions as laymen.

Requirements for Bible Major: In addition to the general requirements for graduation (see page 16), the following are required for a Bible major:

- **Bible "book study courses"** 12 units
- **Bible Seminar 411-412** 4 units
- **Other Bible department offerings (non-core)** 3 units
- **Christian History** 6 units
- **Missions** 6 units

Total: 31 units

Requirements from other disciplines include:

- **Psychology 204 and 307** 6 units
- **Philosophy C 34 and 201** 6 units

Greek is strongly recommended for a Bible major.

Because we believe that the Bible is the Word of God, it is our conviction that no man is truly educated who does not have a thorough knowledge of the Scripture. Jesus Christ said of Himself: "I am the... Truth." All true education revolves around Him as its focal point. The Scriptures of the Old and New Testaments are His chief revelation of Himself to man.

The aim of this department is to ground the student in a knowledge of the Word of God, to train him in his use of the Word of God, and to increase his own personal experience of the Living Word of God. The program is intended to make the student proficient not only in the text of the English Bible but also in the theology of the Bible and, in certain advanced courses, in New Testament Greek.

## COURSES IN BIBLE

Entering students may take either C1 and C2 or C3 and C4.

### C 1. OLD TESTAMENT

A comprehensive study of the Pentateuch and the historical books to the United Kingdom, with emphasis on content, the nature of the covenants, and the history of redemption. A study of related doctrines as these are developed in context. Comprehensive study of the books of poetry, wisdom, and prophecy. Three units. Mr. Clark.

### C 2. NEW TESTAMENT

A comprehensive study of the Gospels, Acts, and the epistles, with emphasis on content and doctrine as developed in context. Three units. Mr. Clark.

### C 3. OLD TESTAMENT STUDIES

An "honors" course following the same format as C1, but designed for students who are interested in more advanced study. The method of instruction utilizes independent study and tutorials. Three units. Mr. Clark.
C 4. NEW TESTAMENT STUDIES
An "honors" course with the same format as C 2 and with the same goals as outlined in Old Testament Studies. Three units. Mr. Clark.

C 5-6. CHRISTIAN DOCTRINE
An introduction to the historic doctrines of the Church, based on the Westminster Confession of Faith. Discussion of methods of Bible study (hermeneutics) and evangelism will be included. Two semesters. Six units. Mr. Anderson and Mr. Young.

301. ROMANS
A study of the doctrinal, spiritual, and ethical values in Romans, designed to give the student an understanding of the divine plan of salvation and a method of presenting that plan to others. Three units. Mr. Anderson.

302. HEBREWS

303. EPHESIANS AND COLOSSIANS
Special emphasis will be placed on developing skills in Bible study methods as well as the authenticity, authorship, and content of the two epistles. Three units. (Not offered 1969-70).

305. THE PROPHETS
A survey of the Old Testament prophets with special attention given to the nature and task of the prophetic office and its place in and effect upon redemptive history. Attention will also be given to the outstanding prophets and their particular messages. Three units. (Not offered 1969-70).

306. CHRISTIAN ETHICS

307. GENESIS
A study of the book with special attention upon the theological aspects of the first eleven chapters, and the meaning, in terms of history, of the Abrahamic covenant. The course will also include study of the authenticity and authorship of Genesis. Three units. (Not offered 1969-70).

308. CHRISTIAN EDUCATION
A reading course with special emphasis on the history and philosophy of Christian education. Two units. (Not offered 1969-70).

309. CHRISTIAN APOLOGETICS

310. JOHN
Criticism and questions regarding authorship, date, and purpose. Historical background, and the application of the message of John to modern life and thought with emphasis on doctrinal and ethical teaching. Three units. Mr. Anderson.

312. PENTATEUCH
An analysis of the books as a whole with special reference to the constitutional structure of Hebrew society and the doctrinal content of the Pentateuch. Three units. (Not offered 1969-70).

405. ISAIAH
A study of the prophecy of Isaiah against its historical background with special attention given to the Messianic passages. Three units. (Not offered 1969-70).

411-412. BIBLE SEMINAR
A course designed to review, supplement, and integrate the major program. Background readings in Biblical history, archeology, criticism, contemporary interpretation, and theology assigned for seminar discussion. Required for Bible majors and pre-seminarian Missions majors. Four units. Mr. Young.

Requirements for Missions Major: In addition to the general requirements for graduation (see page 16), the following are required for a Missions major:

- Missions 15 units
- Bible or Missions 6 units
- 201 or 202 Linguistics 3 units
- 329 Anthropology 3 units
- 411-412 Bible Seminar 4 units

31 units

Requirements from other disciplines include:

- C 34 Logic 3 units
- 201 Philosophy 3 units
- 204 Social Psychology 3 units
- 307 Theories of Personality 3 units

Greek is strongly recommended for a Missions major.

COURSES IN MISSIONS

201. THE CHURCH'S MISSION TO THE MEDIEVAL FAR EASTERN AND WESTERN CIVILIZATIONS
A study of the eastward advance of missionaries of the early, Nestorian, and medieval churches will be made, with special attention
given to the social, cultural, and historical situations of the Oriental civilizations penetrated. The early entry of Christianity into the British Isles, with its expansion from the Iona colony to Europe, will also be examined. The motivation, methodology, related doctrines, and results of each effort will be evaluated. Three units. Open to freshmen with permission of the instructor. Mr. Young.

202. POST-REFORMATION HISTORY OF MISSIONS
A study of the history of the foreign missionary movement from Reformation times, Calvin, the Puritans, Mennonites, and the modern movement. Three units. Mr. Young.

[203. THEOLOGY OF MISSIONS]
A study of Biblical and extra-Biblical covenants will be made to see the importance of the covenant concept to the revelation of redemption; the basis of missions as lying in a covenant-centered theology of missions; the doctrines of election, atonement, love of God, common grace, and free offer of the gospel, in relation to missions. Three units. (Not offered 1969-70).

[204. MISSIONARY METHODS AND PROBLEMS]
Methods of conducting the missionary effort in foreign countries will be studied in relation to such matters as communications, elenctics, identification, unacceptable accommodation, the support and government of the local churches, the problem of church and state, and various types of missionary endeavor. Three units. (Not offered 1969-70).

301. WORLD RELIGIONS
An analytical and critical appraisal of the major non-Christian religious ideologies of animism, Hinduism, Buddhism, Shintoism, and Islamism, with a consideration of the early influence of Christianity on the latter three, and the world and life views with which their followers confront the missionary. Three units. (Not offered 1969-70).

302. ECUMENICS AND MISSIONS]
A study of the history of the twentieth century ecumenical movement from its origin in the Edinburgh mission conference to the present day with an investigation of the problems, opportunities, types, and limits of cooperation. Three units. (Not offered 1969-70).

401. MODERN RELIGIOUS CULTS]
A critical study of the religious cults of Christian Science, Jehovah's Witnesses, Mormonism, and Seventh-Day Adventism, with special attention being given to their historical development and doctrinal emphases as these are derived from their original source material. Three units. (Not offered 1969-70).

402. NEW TESTAMENT MISSIONS]
A study of the missionary activity of the apostles, considering the historical and cultural situations of the times and the apostolic message, methods, and church. Three units. (Not offered 1969-70).

Requirements for Philosophy Major: In addition to the general requirements for graduation (see page 16), the following are required for a Philosophy major:

Philosophy, including at least 18 units of upper-division courses 30 units
C 30 Fundamentals of Mathematics 3 units
Either:
C 31-32 Introduction to Physics 8 units
or:
C 44-45 Modern Concepts of Natural Science 8 units

One of the powers and prerogatives peculiar to man is to think. Most of the real progress in the world in every field has come through the medium of reflective thinking. When thinking becomes serious, sustained, and logical, and when it is directed toward questions of life and values, it becomes philosophy. No one has a greater responsibility to think clearly than the Christian. In order to set forth the Christian faith in a way which will answer the great problems of mankind, the Christian should be thoroughly conversant with the philosophy of the great men of all ages.

Courses in this department are especially designed both to give the pre-seminary student a proper background for later
advanced work in theology and apologetics and to introduce the field of philosophy to those who, while not expecting to specialize in the field, want to learn to think clearly and to have a broader appreciation of the meaning and values of life.

COURSES IN PHILOSOPHY

C 34. LOGIC
An introduction to classical and modern logic with some attention to the problems of induction. The emphasis is on a proper use of inference in ordinary language and with logical symbols. Three units. Mr. Belz, Mr. Pokrywka.

C 48-49. PHILOSOPHY OF THE CHRISTIAN FAITH
A survey of the system of doctrine taught in the Scripture with a view toward seeking solutions for the problem of the relationship between Christ and culture. The first semester will include lectures and student forums. During the second semester there will be no formal classes and students will be expected to prepare a written thesis. This will provide an opportunity to explore and analyze a problem from the student's major field, in the light of Christian philosophy. Required of seniors. Two units each semester. Mr. Anderson and Mr. Young.

[201. PLATO]
An introduction to philosophy and its history through a study of the major dialogues. Three units. (Not offered 1969-70).

[202. MEDIEVAL THOUGHT]
A study of the Church Fathers and medieval thinkers, with special emphasis on Augustine and Aquinas. Three units. (Not offered 1969-70).

301. RATIONALISM AND EMPIRICISM
Philosophical thought from Descartes through Hume. Attention will be paid both to the development within these schools and their contemporary significance. Three units. Mr. Sanderson.

302. GERMAN PHILOSOPHY
Kant, Fichte, and Hegel—with special attention to their influence on today's thought. Three units. Mr. Sanderson.

303. ETHICS
A study of the principal theories, classical and modern, regarding value and moral obligation. Three units. Mr. Pokrywka.

[304. AESTHETICS]
The clarification of terms and a discussion of proposed criteria for aesthetic judgments. The major works will be read and discussed. Three units. (Not offered 1969-70).

[305-306. RECENT PHILOSOPHY]
An examination of basic trends of post-Kantian thought. Major attention will be given to the philosophy of science. Pragmatism, Positivism, Analytic Philosophy, Phenomenology, and Existentialism. The significance of these for Christian theology will be assessed. Six units. Either semester may be taken for credit. (Not offered 1969-70).

[307. ADVANCED LOGIC]
The propositional calculus and general quantification theory, with some attention to practical application of these principles. Three units. (Not offered 1969-70).

401. PHILOSOPHY AND LANGUAGE
This course will review some of the essays of the leading language philosophers: Malcolm, Wisdom, Ryle, Wittgenstein, Moore, Austin, Strawson, Hare, Urmson, and Hampshire. Special attention will be given to the implication of this new mode of philosophy for Christian ethics and theology. Three units. Mr. Pokrywka.

402. PHILOSOPHY OF HISTORY
A study of the nature and theory of history and of the criteria for the evaluation of historic data, including a survey of representative modern philosophies of history. Three units. Mr. Pokrywka.

403-404. INDEPENDENT STUDY
With permission of the department, properly qualified philosophy majors may, under the supervision of individual members of the faculty, take a course of directed reading and independent investigation. The preparation of the thesis on the historical background and contemporary status of a major philosophical problem will be required. Two, three, or four units. Mr. Sanderson.

[405. PHILOSOPHY OF SCIENCE]
A study of the nature, scope, and limitations of scientific method and explanation with special attention to the questions of fact and value. Major treatises will be read critically. Three units. (Not offered 1969-70).

406-407. PHILOSOPHY SEMINAR
A discussion in depth of the writings of a philosopher, or of a problem in philosophy. Students will prepare reports, read papers, and lead discussion. Three units each semester. Mr. Sanderson.

The Covenant campus enjoys regular visits from visiting lecturers such as Dr. Francis Schaeffer, author and director of L'Abri Fellowship in Switzerland.
The study of history provides the student with a sense of both continuity and change. An appreciation of our cultural heritage results from a sense of the continuity of history. A sense of change in history produces an impression of the constant need for innovation and progress to meet the challenge of the present and the future. More than anything else, a historical sense of continuity and change instructs the student in the glory and wisdom of God’s past and on-going providence.

The History Department seeks to provide for each Covenant student, through the required course in Western Civilization, a background of general information for all later collegiate studies, the development of basic study habits and discussion skills, and an appreciation of our cultural and spiritual heritage.

It is intended that sophomores planning to major in history take either 201-202 History of England, or 211-212 History of the United States, both of which deal with the more direct and intimate historical heritage of our students and both of which also incorporate some critical study of documents. This stage further prepares for the upper-class courses, which are concerned with more definite periods of more specialized fields of European and American history and which make extensive use of source materials.

Requirements for History Major: In addition to the general requirements for graduation (see page 16), the following are required for a history major:

<table>
<thead>
<tr>
<th>History 402 Philosophy of History</th>
<th>27 units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3 units</td>
</tr>
</tbody>
</table>

The student majoring in history is advised to seek competence in two of the following fields—American, Medieval, or Modern European History.

Students intending to go on to graduate work in history are urged to gain a reading knowledge of either French or German, or preferably both.

The major in history helps prepare the student for secondary-school or college teaching, the Christian ministry, the legal profession, government and public life, business, or any walk of life which calls for a broad background for wise decision-making.

Requirements for Social Science Major: This major includes certain courses in psychology (see Psychology Department offerings). Requirements include, in addition to the general requirements for graduation (see page 16):

<table>
<thead>
<tr>
<th>Major area (Psychology or History)</th>
<th>18-23 units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minor area (History or Psychology)</td>
<td>9-14 units</td>
</tr>
</tbody>
</table>

Total (at least 18 to be upper-division) 32 units

A student’s program should include a balance of American and European history.

The major in social sciences helps prepare the student for the ministry, social work, civil service, or teaching of social studies at the secondary-school level.
COURSES IN HISTORY

C 28-29. HISTORY OF WESTERN CIVILIZATION
A core course covering the historical development of political, social, and economic institutions from ancient times to the present, with stress on the history of ideas and culture. Reading of selections from the great classics of Western Civilization, which will be discussed in small tutorial sessions. Required of all freshmen. Eight units. Mr. W. Barker. Stress on the history of ideas and culture. Reading of selections from the great classics of Western Civilization, which will be discussed in small tutorial sessions. Required of all freshmen. Eight units. Mr. W. Barker, Mr. Heller, and staff.

201-202. HISTORY OF ENGLAND
The first semester is a survey of English history from the earliest time to 1715; the second semester, from 1715 to the present. Six units. Mr. Barker and Mr. Heller.

211-212, HISTORY OF THE UNITED STATES]
A synthesis of the political, social, economic, cultural, and religious phases of American life. Six units. (Not offered 1969-70).

[301. ROMAN HISTORY]
A study of the Roman state from prehistoric times to the Middle Ages, with special attention to the Republic and Principate. Three units. (Not offered 1969-70).

[303-304. MEDIEVAL HISTORY]
A study of the development of the fundamental concepts and institutions of the West. First semester, from the year 300, including such topics as the barbarian civilization, the rise of Islam, monasticism, feudalism, philosophy; the second semester, from the rise of the papacy to 1300, including a consideration of the crusades, chivalry, towns, commerce, and education. Six units. (Not offered 1969-70).

[305. THE RENAISSANCE AND REFORMATION]
A survey of Europe from the beginning of the Renaissance, with emphasis on the political, social, and religious backgrounds of the culture of that era, including the modification of medieval institutions by newer forces, the growth of capitalism, and an analytical study of the Reformation era. Three units. (Not offered 1969-70).

[306. EUROPE FROM THE REFORMATION TO WATERLOO]
A survey of the foundation of modern Europe, including the rise of nationalism and the development of parliamentary government. Three units. (Not offered 1969-70).

[307. EUROPE SINCE 1789]
A survey of the economic, political, and intellectual developments in Europe, including the political and industrial revolutions; the rise of democracy, imperialism, and totalitarianism; and the sources of twentieth-century global tensions. Three units. (Not offered 1969-70).

308. RUSSIAN HISTORY
A study of the origins and development of Russia, including the political, social, and religious aspects from early times to the present. Three units. Mr. Heller.

[309-310. HISTORY OF CHRISTIANITY]
First semester, a detailed study of the Church from Pentecost to the Protestant Reformation with emphasis on the problems of Church and State; second semester, from the Protestant Reformation to the present, with an explanation of the effect of the Christian society on contemporary life. Six units. (Not offered 1969-70).

[311. ORIGINS OF THE UNITED STATES]
A study of early American history, with emphasis on the European settlement of North America, on the social and cultural development of the American community, and on the establishment of political independence at the time of the Revolution. Three units. (Not offered 1969-70).

[313. AGE OF JEFFERSON AND JACKSON]
From the establishing of the republic to 1841, with emphasis on the administrations of Jefferson and Jackson. Two units. (Not offered 1969-70).

315. INTRODUCTION TO RESEARCH
A course designed for history majors in their junior year, to acquaint them with the problems and techniques of historical study, research, and writing. Two units. Mr. Heller.
[317. CONTEMPORARY EUROPE]
From the depression of the thirties to mid-century prosperity, Origins, nature, and consequences of economic collapse; the Fascist regimes; the Stalinist system; World War II and aftermath—from chaos to reconstruction; the cold war. Three units. (Not offered 1969-70).

319-320. THE ECONOMIC DEVELOPMENT OF THE AMERICAN NATION
First semester: from early settlement to Reconstruction. Colonial economy, economic aspects of independence, early national development, the economy of the Civil War and its consequences for industrial growth.
Second semester: from Reconstruction to the New Frontier. Rise of industrialism and its relation to agriculture, commerce, finance, and business organization; the economy in World War I; the Depression; economic impact of World War II; economic aspects of foreign relations; the economy in mid-twentieth century. Six units. Mr. Heller.

[321-322. HISTORY OF THE NEAR AND MIDDLE EAST]
First semester: 570-1789. Rise and spread of Islam; Islam as a religious-political system; Moslem culture; rise, expansion, and decline of the Ottoman Empire.
Second semester: 1789 to the present. European Imperialism in the Middle East; impact of the French Revolution and Napoleon; development of modern Egypt; the Young Turks; Arab Nationalism. The contemporary Middle East: impact of World War I; Turkish Republic; Palestine; Iran; Saudi Arabia; the Egyptian Republic; Israel, strategic importance in world affairs. Six units. (Not offered 1969-70).

402. SEMINAR IN MODERN EUROPEAN HISTORY
Intensive study of select problems of interpretation and related literature. Restricted to seniors. Two units. Mr. Heller.

[404. SENIOR SEMINAR]
Research and discussion of a significant problem in European history. Restricted to seniors. Two units. (Not offered 1969-70).

401. PHILOSOPHY OF HISTORY
A study of the nature and theory of history and of the criteria for the evaluation of historic data, including a survey of representative modern philosophies of history. Three units. Mr. Pokrywka.

COURSES IN SOCIAL SCIENCES

204. AMERICAN GOVERNMENT
A study of the organization, functions, and services of the national government, with special consideration of its constitutional basis and current issues. Two units. Mr. Schmidt.

205. SOCIOLOGY
A general introduction to the major features of our society, including the development of urban life, industry, and its problems, family and community life, the religious community. Three units. Mr. Pitcher.

[329. CULTURAL ANTHROPOLOGY]
A study of man's social behavior from the earliest times to the present. Includes an examination of the historical background as well as an analysis of both the distinctive and universal elements of culture. Three units. (Not offered 1969-70).
Majors
English

Courses
French
German
Greek
Spanish

Faculty
Mr. N. Barker, Ph.D.
Miss Taylor, A.B.
Miss Vander Ark, A.M.

Requirements for English major: In addition to the general requirements for graduation (see page 17), the following are required for an English major:

A minimum of 30 units in English including:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>201-202 Survey of English Literature</td>
<td>6</td>
</tr>
<tr>
<td>303 The English Language</td>
<td>3</td>
</tr>
<tr>
<td>306 Chaucer</td>
<td>3</td>
</tr>
<tr>
<td>318 Shakespeare</td>
<td>3</td>
</tr>
<tr>
<td>323 Milton</td>
<td>3</td>
</tr>
<tr>
<td>372 or 373 American Literature</td>
<td>3</td>
</tr>
<tr>
<td>425 English Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

Foreign Languages and Electives: The English Department strongly recommends that its majors acquire a good reading knowledge of at least one modern foreign language, preferably French or German. Majors should consider as desirable electives the literature courses in the Foreign Languages Department and courses in the fields of history and philosophy.

COURSES IN WRITING

C10. English Composition
A study of the principles of effective expository composition, with frequent writing and careful revision of themes; critical reading of professional examples of expository prose; examination of the resources of language, including attention to exact and appropriate diction, to variety in sentence structure, and to methods of paragraph development and organization of the whole composition; and practice in the use of source materials in research. Three units. Miss Vander Ark and staff.

302. Advanced Writing
A course in various forms of non-expository composition. Two units. Prerequisite: Exemption from English Composition, or English Composition with a grade of B or higher, and special permission of the instructor. Mr. N. Barker.

COURSES IN LANGUAGE AND LITERATURE

201-202. Survey of English Literature
A chronological study of English literature. First semester, the beginnings to 1800; second semester, 1800 to the present. Six units. Prerequisite: English major or prospective English major. Miss Vander Ark.

[300. The Medieval Literature of England]

303. The English Language
An introduction to the history and the structure of the English language. Three units. Mr. N. Barker.

[306. Chaucer]
A study of Chaucer's art and of the social and literary backgrounds of his work. Three units. (Not offered 1969-70).

[317. The Sixteenth Century]
Critical studies of the poetry, prose, and drama of the sixteenth century, with special attention to Spenser. Three units. (Not offered 1969-70).
318. SHAKESPEARE
A study of the representative tragedies, comedies, and histories with attention to the development of Shakespeare's dramatic art. Three units. Mr. N. Barker.

[322. THE SEVENTEENTH CENTURY]
Critical studies in the poetry, prose, and drama of the seventeenth century, exclusive of Milton. Three units. (Not offered 1969-70).

323. MILTON
An intensive reading of Milton's minor poetry, selected prose, Paradise Lost, and Paradise Regained, with particular attention to Paradise Lost; emphasis on close analysis of the poetry and on Milton's development as a poet. Three units. Mr. N. Barker.

333. THE EIGHTEENTH CENTURY
Studies in the poetry and prose of the chief writers of the age, with special emphasis on the writings of Pope and Swift; on theories and techniques of satire; and on Johnson and the beginnings of romanticism. Three units. Mr. N. Barker.

334. THE ROMANTIC MOVEMENT
Analytic reading of selections from the English Romantic writers from Blake to Keats. Three units. Miss Vander Ark.

[341. THE VICTORIAN ERA]
Critical reading of selections from the major English writers from 1830 to the end of the century. Three units. (Not offered 1969-70).

[352. TWENTIETH-CENTURY LITERATURE]
Analytic reading of a limited number of works of major English and American writers of the twentieth century. Three units. (Not offered 1969-70).

[360. THE ENGLISH NOVEL]
Critical studies of a limited number of works of the major writers of English fiction of the eighteenth and nineteenth centuries. Three units. (Not offered 1969-70).

372. AMERICAN POETRY
A study of the principal American poets. Three units. Mr. N. Barker.

[373. THE AMERICAN NOVEL]
Critical reading of representative American novels from Cooper to the present. Three units. (Not offered 1969-70).

[425. ENGLISH SEMINAR]
An intensive study of the disciplines of English (including linguistics, rhetorical studies, textual scholarship, literary history, and literary criticism) and the methods of research appropriate to them. Three units. (Not offered 1969-70).

426. INDEPENDENT STUDY.
A course designed for the student who has demonstrated potential ability for independent study. It allows him to choose and to explore, under the guidance of an instructor, an area of literature or language on which he will write one or more long papers. The student's progress will be tested by oral and written examinations. Open to majors in English and other qualified students. Credit to be determined in each case; maximum credit, three units per semester.

COURSE IN SPEECH
C 11. PRINCIPLES OF PUBLIC SPEAKING
An introduction to the study and practice of basic techniques of effective public speaking, including voice production and clear articulation, prepared and extemporaneous speaking, and discussion procedures. Three units. Mr. Ziegler.

SPECIAL COURSE
100. READING DYNAMICS
A highly concentrated course designed to increase speed and comprehension in reading. Open to all students. Eight weeks. Special tuition fees. Evelyn Wood Reading Dynamics and Mr. N. Barker.
THE FOREIGN LANGUAGE REQUIREMENT

All students who wish to fulfill the foreign language requirement in a language they have already begun in high school will be placed by an examination given at the beginning of the semester. There are three possible grades on the examination—Superior, Satisfactory, and Unsatisfactory.

Students with two years of a language in high school, upon achieving at least a Satisfactory score on the placement examination, will be placed in the Intermediate course of that language. Failure to make a Satisfactory score will mean that the student must take the Elementary course without credit or start another language.

Students with three or more years of a language in high school, upon achieving a Superior score, will be considered to have fulfilled the foreign language requirement of the college. They will be strongly urged to do advanced work in that language or to begin another one.

Students with four or more years who fail to attain a Superior score will be required to complete the Intermediate course without credit. Students with three years who fail to achieve this score may take Intermediate language for credit.

Students with one year of a language will be required to start the Elementary course, but will receive credit for the second semester only.

Examinations will be given in French, German, and Spanish.

A year of language study equals—

1 year of passing work in grades 9 to 12
2 years of passing work in grades 7 and 8
3 or more years of passing work in elementary school

Example: continuous study of French from grades 3 to 12 equals 6 "years" of French.

COURSES IN GERMAN

C 16-17. ELEMENTARY GERMAN
Grammar, pronunciation, reading, and conversation. Eight units. Mr. Dameron.

C 18-19. GERMAN CONVERSATION AND COMPOSITION

COURSES IN FRENCH

C 20-21. ELEMENTARY FRENCH
Pronunciation, fundamentals of grammar, readings, and conversation. Eight units. Miss Taylor.

C 22-23. INTERMEDIATE FRENCH
Review of grammar; composition; selected readings in both earlier and contemporary writings. Six units. Miss Taylor.

[301. HISTORY OF FRENCH THOUGHT]
A rapid survey of French literature from the Middle Ages to the present. Offered in French or English and available to upperclassmen for completion of the literature requirement. Prerequisite for all other French literature courses. Three units. Miss Taylor. (Not offered 1969-70).

[311. THE MIDDLE AGES AND RENAISSANCE]
An intensive study of French literature to 1600, including reading from Le Chanson de Roland, Montaigne, Rabelais, and the vast amount of poetry of this period. Three units. (Not offered 1969-70).

[312. FRENCH CLASSICISM]
A study of the literature of the 17th and 18th centuries with a strong emphasis on 17th century drama, but also including selections from the 18th century thinking. Rousseau, Voltaire, etc. Three units. (Not offered 1969-70).

[313. THE NINETEENTH CENTURY]
A study of representative literature from the romantics to the realists and naturalists—Vigny, Chateaubriand, Balzac, Flaubert, Daudet, etc. Three units. (Not offered 1969-70).

[314. MODERN LITERATURE]
Starting with the Symbolist movement, this is an attempt to sample and analyze the mass of writing produced since 1880. Three units. (Not offered 1969-70).

[351-352. ADVANCED FRENCH]

401. INDIVIDUAL STUDY
1-3 units.
COURSES IN SPANISH
(C 26-27. INTERMEDIATE SPANISH)
Review of grammar; selected readings in contemporary and earlier writings. Six units. (Not offered 1969-70).

COURSES IN LINGUISTICS
201. PHONETICS
A study of the human speech organs, the types of sounds that they can produce, methods of transcribing them and categorizing them into phonemes. Three hours of class and one hour in the language laboratory with practice in transcription. Three units. Miss Taylor.

202. THE STRUCTURE OF LANGUAGE
A study of morphology and syntax of European and non-European languages; an introduction to transformational grammar. Three units. Miss Taylor.

THE LANGUAGE LABORATORY
All modern language courses are taught in conjunction with the DuKane language laboratory installed two years ago. Students are expected to include in their schedule one hour weekly for laboratory instruction beyond the normal load of the course.
The Department of Music serves the college community in several ways:

- introducing students to music in the course C 33;
- offering an B.A. course with a major in voice or piano;
- offering a B.Mus. curriculum stressing performance in voice or piano
- making available to all students the elective courses and private lessons listed under this department.

ADMISSION

Applicants for the music programs will follow the standard application procedure for the college. Final admission to either the B.A. or B.Mus. program will be subject to an audition with the music faculty either in person or by tape recording. Auditions will normally be held during registration week, and special appointments will be arranged upon request at other times during the year.

REQUIREMENTS FOR ALL MUSIC MAJORS

Music majors are required to attend student recitals and to participate in a performing organization. Credit may be earned in one of two performing organizations to which the student may belong simultaneously, but such credit will not fulfill any course requirements, including electives. Voice majors are required a basic piano proficiency of level 108 (outlined in catalog), sight reading of accompaniments to art songs, instrumental solos, or piano music, and performing a prepared piano composition or accompaniment. The student is to enroll for private music instruction with or without credit until this requirement is met.
MUSIC LIBRARY AND EQUIPMENT

The college library has an excellent supply of reading and research books in all areas in which courses are offered and subscribes to a number of professional music periodicals and journals. A collection of more than 1,000 recordings provides students with a wide range of music literature in performance. The library and classrooms are equipped with stereophonic record players and speakers.

MUSIC MAJOR, B.A. DEGREE (PIANO, VOICE)

The following program is outlined for the music student who wants the liberal arts background and is interested in teaching in elementary or secondary schools.

<table>
<thead>
<tr>
<th>General Education</th>
<th>52</th>
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<tbody>
<tr>
<td>C 10 English Composition</td>
<td>3</td>
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<tr>
<td>C 28-29 Western Civilization</td>
<td>8</td>
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<tr>
<td>C 1 or C 3 Old Testament</td>
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<tr>
<td>C 2 or C 4 New Testament</td>
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<tr>
<td>C 8-9 Christian Doctrine</td>
<td>6</td>
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<tr>
<td>C 35 Philosophy of Christian Faith</td>
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<td>C 36-37 Physical Education</td>
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<tr>
<td>Music</td>
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<tr>
<td>C 33 Introduction to Music</td>
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<tr>
<td>205-206 Theory I</td>
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<tr>
<td>305-306 Theory II</td>
<td>8</td>
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<tr>
<td>421-422 History of Music</td>
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BACHELOR OF MUSIC (PIANO, VOICE)

This is a pre-professional program designed to prepare students for graduate studies in applied music, musicology, theory, or related studies. In addition to the intensive private study in applied music, the program includes sufficient theory, music history, and literature to insure a thorough music background. A junior and a senior recital are required of each student.

<table>
<thead>
<tr>
<th>Class</th>
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<tr>
<td>Counterpoint</td>
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COURSES IN HISTORY AND LITERATURE

C 33. INTRODUCTION TO MUSIC
   A course designed to develop a musical perception and ability to hear the best music intelligently. Emphasis is placed on aspects of style that distinguish one era from another. Three units. Mr. Magee.

[309. PIANO LITERATURE]
   A study of the development of the piano and the various forms in which piano works appear. Emphasis upon the style of various composers and extensive repertoire. Two units. (Not offered 1969-70).

[319. VOICE LITERATURE]
   A comprehensive study of art song literature. Two units. (Not offered 1969-70).

[320. HYMNODY]
   A study of the origins and development of Christian hymnody from earliest times to the present. Forms and use of hymns in church. Two units. (Not offered 1969-70).

321-322. HISTORY OF MUSIC
   An intense study of the music of all ages designed for the music major but open to others with approval of the instructor. Three units each semester. Mr. Magee.

323. OPERA LITERATURE
   A study of the literature of opera from 1600 to the present with careful and detailed studies of representative works in the various style periods. Two units. Mr. Hamm.

[405. TWENTIETH CENTURY MUSIC]
   A study of major trends in twentieth century European and American music including examination of works from Debussy through Stravinsky. Some experimentation in composition of original works in the style of the various composers may be required. Two units each semester. Prerequisites: Music Theory II, Music History 321-322. (Not offered 1969-70).

[409. SYMPHONIC LITERATURE]
   A course in the study of symphonic literature of the eighteenth, nineteenth, and twentieth centuries to emphasize listening analysis, and the learning of a broad repertory in the media. Prerequisites: Music Theory II, Music History 321-322, or consent of instructor. Two units. (Not offered 1969-70).

[419. CHAMBER MUSIC LITERATURE]
   A survey course of the chamber music from the eighteenth century to contemporary works in the field to emphasize listening analysis, and the learning of a broad repertory in the media. Prerequisites: Music Theory II, Music History 321-322, or consent of the instructor. Two units. (Not offered 1969-70).

[423. CHORAL LITERATURE]
   A comprehensive study of the choral literature of all periods. Two units. (Not offered 1969-70).

COURSES IN THEORY

[101. MUSIC FUNDAMENTALS]
   Basic elements of music for non-majors, including ear training, sight singing, and elementary harmony. One unit. (Not offered 1969-70).

105-106. THEORY I
   An integrated course including ear training, keyboard harmony, sight singing, and written harmony. A study of keys, scales, intervals, triads, chord progressions, cadences, harmonizations of melodies and basses, simple modulations and analysis. Five meetings per week. Four units each semester. Mr. Magee.

[205-206. THEORY II]
   An integrated course including advanced ear training, keyboard harmony, sight singing, and written harmony. Modulations, altered chords, augmented chords, ornamentation, analysis, and original work. Five meetings per week. Four units each semester. (Not offered 1969-70).
305-306. COUNTERPOINT
First semester, the contrapuntal technique of the sixteenth century. Second semester, the harmonic contrapuntal technique of the eighteenth century. Two units each semester. Mr. Magee.

[321. ORCHESTRATION]
Study of ranges, tonal possibilities, technical limitations, and necessary transpositions of all orchestral and band instruments; scoring of short pieces in various styles for small and large orchestra and band. Prerequisite: Music Theory II. (Not offered 1969-70).

331-332. FORMS AND ANALYSIS
A course in the analysis of all forms prevalent in the eighteenth and nineteenth centuries. Detailed study structure of phrases, periods, transitions, parts, songs, dance forms, and sonata form. Extensive analysis of actual works such as Mendelssohn Songs without Words, Beethoven Sonatas. Prerequisite: Music Theory II. Two units each semester. Mrs. Magee.

COURSES IN APPLIED MUSIC

100. COLLEGE-COMMUNITY CHORUS
Open to all students interested in performing the great works of the sacred choral literature. The chorus meets weekly and performs twice a year. One-half unit. Mr. Hamm.

111-112. COVENANT CHORALE
Members are selected after an audition with the director. Three hours rehearsal weekly. Concerts are presented on two annual tours and in local churches. Fee: $3.00 per year. Two units per year. Mr. Hamm.

211-212. MADRIGAL SINGERS
The study and performance of choral literature appropriate for small voice groups. Open to students with sight singing ability and with the approval of the director. Meets once a week. Fee: $2.00 per year. One unit per year. Mr. Hamm.

301. CHORAL CONDUCTING
Study and development of the conducting skill. Rehearsal techniques, principles of interpretation. Two hours per week and membership in Chorale or College-Community Chorus. Two units. Mr. Hamm.

[401. ADVANCED CHORAL CONDUCTING]
Two hours per week. Two units. (Not offered 1969-70).

PRIVATE INSTRUCTION
Credit for voice and piano will not be granted unless the student demonstrates sufficient ability to receive credit. An audition will be heard by the music faculty to determine whether the student may enroll for credit. Two units of credit are given each semester for one hour of daily practice and one half-hour lesson each week. B.Mus. majors are required to take two half-hour lessons per week and two hours of daily practice for four units of credit each semester. All students taking private instruction for credit are required to sustain a performance examination at the end of each semester.

VOICE

117-118. FIRST YEAR VOICE

217-218. SECOND YEAR VOICE
More advanced technique. Introduction to the literature of German lieder, oratorio, and opera.

317-318. THIRD YEAR VOICE

417-418. FOURTH YEAR VOICE
Continuation of the study of opera and oratorio literature. Contemporary English, German, French, and Russian literature. Recital.

PIANO

107-108. FIRST YEAR PIANO
Bach two-part inventions, easier Haydn, Scarlatti, and Mozart Sonatas, selections from classical, romantic, and modern schools. All scales and arpeggios, M.M. =112.

207-208. SECOND YEAR PIANO
Bach Suites, Well-tempered Clavier, Beethoven, and Mozart Sonatas, selections from classical, romantic, and modern schools. All scales and arpeggios, M.M. =126.

307-308. THIRD YEAR PIANO

407-408. FOURTH YEAR PIANO
More extended study of the classical and romantic composers. A concerto will be left to the discretion of the teacher. Work in major and minor thirds and sixths, octaves. Scales and arpeggios, M.M. =138. Recital.

ORGAN
Private instruction in organ arranged upon request.

ORCHESTRAL INSTRUMENTS
Private instruction in orchestral instruments arranged upon request.
Because we believe that every area of life is to be employed in the service of God, we do not view the natural sciences as further removed from the sphere of Christian concern than any other discipline. On the contrary, the natural sciences provide an area where God can be well served, and where a real appreciation of His creation can be developed.

The Department of Natural Sciences and Mathematics, through its core offerings, seeks to acquaint every student in the college with some of the laws by which things operate. We further seek to give each student an appreciation of the way in which scientists go about their work, and how theories develop.

Through its major programs the department aims to prepare students for a variety of careers. The majors in Biology and Chemistry are designed to meet the needs of those planning to undertake graduate work, to enter medical school, or to teach at the secondary level following the completion of a Master of Arts degree in teaching. The major in Natural Science is a flexible program primarily designed to meet the varying needs of those planning to teach at the secondary level. Within this major, a student can elect to concentrate in Biology, Chemistry, Mathematics, or Physics.

COURSES IN BASIC SCIENCE
(These courses may not be applied to the majors in Biology or Chemistry).

[C 44-45. MODERN CONCEPTS OF NATURAL SCIENCE]
A study of the fundamentals of physics, chemistry, and biology with special emphasis on 20th century developments in these areas. Three hours lecture. Two hours laboratory. Laboratory fee: $15.00 per semester. Refundable breakage deposit: $5.00. Eight units. (Not offered 1969-70).

C 46. ELEMENTS OF ASTRONOMY AND GEOLOGY
The persons who were prominent in the history of astronomy and geology will be studied so as to review the impact of these sciences upon Christian thought. Basic modern theory will be coupled with telescopic observation, laboratory work with mineral specimens, and some field work involving fossiliferous strata. Three hours lecture. Three hours laboratory. Laboratory fee: $15.00. Four units. Mr. Olney. (Offered in alternate years).

C 47. EVOLUTION AND BIOLOGICAL ADAPTATIONS
Heredity and its chemical basis will be studied as a foundation for a study of macroevolution and microevolution and man's impact on his environment. Three hours lecture. Three hours laboratory. Laboratory fee: $15.00. Four units. Mr. Lothers. (Offered in alternate years).

COURSES IN BIOLOGY

C 40-41. GENERAL BIOLOGY
An introduction to biological principles; a study of plant and animal organisms, with a survey of the main historical developments, methods, and current concepts and problems. Three hours lecture. Three hours laboratory. Laboratory fee: $15.00 per semester. Refundable breakage deposit: $5.00. Staff. Eight units.

201. COMPARATIVE ANATOMY
Classification and comparison of typical chordate animals with emphasis on the vertebrates. Prerequisite: Biology C 40-41 or equivalent. Two hours lecture. Six hours laboratory. Laboratory fee: $15.00. Four units. Staff.
202. BACTERIOLOGY

Life histories, morphology, physiology, identification, culture techniques, and immunity. Three hours lecture. Three hours laboratory. Laboratory fee: $10.00. Four units. Mr. Lothers. (Offered in alternate years).

[208. ECOLOGY]

Relations of organisms to the physical and biological conditions under which they live. Three hours lecture. Three hours laboratory. Prerequisite: Biology C 40-41 or equivalent. Labora¬
tory fee: $10.00. Four units. Mr. Lothers. (Offered in alternate years).

[303. GENETICS]

A study of the principles that govern heredity. The course includes a consideration of the principles of Mendelian inheritance and an analysis of the underlying mechanisms of heredity. Prerequisite: Biology C 40-41 or equivalent. Three hours lecture. Two hours laboratory. Laboratory fee: $10.00. Four units. (Not offered 1969-70).

304. EMBRYOLOGY

Development of vertebrate animals. Prerequisite: Biology C 40-41 or equivalent. Three hours lecture. Three hours laboratory. Laboratory fee: $10.00. Four units. Mr. Lothers. (Offered in alternate years).

[307. ANIMAL HISTOLOGY AND MICROTECHNIQUE]

Tissues and organs of vertebrates. Training in the preparation and interpretation of animal tissues for microscopical study. Prerequisite: Biology C 40-41 or equivalent. Two hours lecture. Four hours laboratory. Laboratory fee: $10.00. Four units. (Not offered 1969-70).

308. PLANT ANATOMY

Anatomy of the higher plants with emphasis on the woody forms. The laboratory work will include instruction in microtechnique and photomicrophotography. Prerequisite: Biology C 40-41 or equivalent. Three hours lecture. Four hours laboratory. Laboratory fee: $10.00. Four units. Mr. Olney. (Offered on demand).

309. HUMAN PHYSIOLOGY

The functioning of the major systems of the body will be studied along with a sufficient background of anatomical concepts. Prerequisite: Biology C 40-41. Three hours lecture. Three hours laboratory. Laboratory fee: $10.00. Four units. Mr. Olney. (Offered in alternate years).

401. CURRENT CONCEPTS IN BIOLOGY

Historic development of current concepts with emphasis on the theory of evolution. Reports and discussions of the current literature. Prerequisite: Eight hours of 200 or 300 courses, preferably including Genetics. Two hours lecture. Two units. Mr. Olney, Mr. Lothers.

403. MACROEVOLUTION AND MICROEVOLUTION

Same topics as C 37. Additional readings will be required and stu¬
dents will lead discussion groups once per week. Two units. Mr. Lothers.

406. DIRECTED STUDIES IN BIOLOGY

Methods in biological research, familiarity with the biological litera-
ture, experience in choosing and carrying out an experiment. Students may select problems in plant physiology, plant biochemistry, biological instrumentation, embryology, bacterial genetics and ecology. Problems in other areas are also possible. Prerequisite: Eight hours of 200 or 300 courses. Two units. Mr. Olney, Mr. Lothers.

COURSES IN CHEMISTRY

C 42-43. GENERAL CHEMISTRY

An introduction to inorganic and organic chemistry with special emphasis on fundamental chemical principles and their applications. Second semester will emphasize organic chemistry and include qualitative analytical procedures. Three hours lecture. Three hours laboratory. Laboratory fee: $15.00 per semester. Refundable breakage deposit: $10.00. Eight units. Staff.

303-304. ORGANIC CHEMISTRY

A study of the chemistry of carbon compounds. Methods of preparation and the characteristic properties and reactions of the important classes of organic compounds are considered. Reaction mechanisms and modern spectroscopic techniques are stressed. Prerequisite: Chemistry C 42-43. Three hours lecture. Three hours laboratory. Laboratory fee: $15.00 per semester. Refundable breakage deposit: $10.00. Eight units. Mr. Donaldson.

305-306. ANALYTICAL CHEMISTRY

Coverage of the principles and applications of various analytical methods. Traditional volumetric and gravimetric techniques are treated first, followed by a study of modern instrumental techniques. Prerequisite: Chemistry C 42-43. Two hours lecture. Six hours laboratory. Laboratory fee: $15.00 per semester. Refundable breakage deposit: $10.00. Eight units. Mr. Dameron. (Offered in alternate years).

402. ADVANCED ORGANIC CHEMISTRY

An intensive study of selected topics in organic chemistry. Laboratory work consists of purification and systematic identification of organic compounds. Prerequisite: Chemistry 303-304. Two hours lecture. Six hours laboratory. Laboratory fee: $15.00. Refundable breakage deposit: $10.00. Four units. Mr. Donaldson. (Offered on demand).

403. BIOCHEMISTRY

The study of the chemistry of living organisms and life processes, including the chemistry of fats, carbohydrates, proteins, vitamins, and hormones. Prerequisite: Chemistry 303-304. Three hours lecture. Three hours laboratory. Laboratory fee: $15.00. Refundable breakage deposit: $10.00. Four units. Staff. (Offered on demand).

406-406. PHYSICAL CHEMISTRY

A study of the gaseous, liquid, and solid states, solutions, elementary thermodynamics, chemical equilibria, electrochemistry, chemical kinetics and quantum mechanics. Prerequisite: Chemistry 305-306,
Physics C 31-32, Mathematics 151-152, or consent of instructor. Three hours lecture. Three hours laboratory. Laboratory fee: $15.00 per semester. Refundable breakage deposit: $10.00. Eight units. Staff. (Not offered 1969-70).

COURSES IN PHYSICS

C 31-32. GENERAL PHYSICS
The essentials of mechanics, heat, sound, electricity, magnetism, and light, and an introduction to modern physics, including nuclear physics and atomic structure. Three hours lecture. Three hours laboratory. Laboratory fee: $15.00 per semester. Refundable laboratory deposit: $5.00. Eight units. Mr. Dameron.

[321. MODERN PHYSICS]

[322. PRINCIPLES OF ELECTRONICS]
Fundamental theory of electron ballistics, semi-conductors, and vacuum tubes. Applications to modern scientific instrumentation will be stressed. Prerequisite: Physics C 31-32. Two hours lecture. Three hours laboratory. Three units. (Not offered 1969-70).

303-304. EXPERIMENTAL PHYSICS
Advanced laboratory experiments designed to integrate and augment work in lecture courses. Prerequisite: Physics C 31-32. Three hours laboratory. Laboratory fee: $10.00 per semester. Two units. Mr. Dameron. (Offered in alternate years).

450-451. SPECIAL TOPICS IN PHYSICS
Concentration in selected fields of study. Prerequisite: senior standing. Three units each semester. Mr. Dameron. (Offered on demand).

COURSES IN MATHEMATICS

C 30. FUNDAMENTALS OF MATHEMATICS I
Elementary set theory, the logical nature of mathematics, the real number system, topics of algebra, algebraic functions. This course serves to fulfill the college core requirement in mathematics. Three units. Staff.
100. FUNDAMENTALS OF MATHEMATICS II
Algebraic, exponential, and logarithmic functions, analytic trigonometry, complex numbers, theory of equations, matrices, and determinants, sequences and series, mathematical induction. Prerequisite: Mathematics C 30 or equivalent. Three units. Staff.

115. INTRODUCTION TO STATISTICS.
Organization of data, elementary probability, frequency distribution, random sampling, testing and hypotheses, regression and correlation, analysis of variance. This course is intended primarily for majors in the biological and social sciences and cannot be counted for credit toward the Mathematics Concentration in the Major in Natural Science. Prerequisite: Mathematics C 30 or equivalent. Three units. Mr. Withington.

151-152. CALCULUS WITH ANALYTIC GEOMETRY I, II
Analytic geometry, functions and limits, the derivatives and its applications, transcendental functions, the definite integral and its application, methods of integration. These courses are prerequisite to all mathematics courses numbered above 200. Prerequisites: Mathematics 100 or equivalent for 151, Mathematics 151 for 152. Eight units. Staff.

251-252. CALCULUS WITH ANALYTIC GEOMETRY III, IV
A continuation of Mathematics 151-152. Hyperbolic functions, vectors, and parametric equations, solid analytic geometry and vectors, partial differentiation, multiple integration, infinite series, elementary differential equations. Prerequisites: Mathematics 152 for 251, and 251 for 252. Eight units. Mr. Hughes.

303-304. MODERN ALGEBRA
A first course in abstract and linear algebra. Sets, mappings, equivalence relations, and introduction to the theory of groups, rings, and fields, linear equations, vector spaces and linear transformations, matrices and determinants, characteristic values and vectors, similarity of matrices. Prerequisite: Mathematics 252 or consent of the instructor. Six units. Mr. Hughes.

[305. MODERN GEOMETRY]
The nature of this course is expected to vary with the needs and interests of the students. Selected topics from advanced Euclidean geometry, projective geometry, and non-Euclidean geometrics. Prerequisite: Mathematics 252 or consent of the instructor. Three units. (Not offered 1969-70).

309-310. ELEMENTARY DIFFERENTIAL EQUATIONS AND BOUNDARY-VALUE PROBLEMS
First order differential equations, second and higher order linear equations, series solutions, the Laplace transform, numerical methods, systems of first order equations, linear second order boundary value problems. Fourier series, partial differential equations. Prerequisite: Mathematics 252 for 309 and 309 for 310. Mr. Hughes. (Offered on demand).

[316. MATHEMATICAL PROBABILITY AND STATISTICS]
Introduction to probability, finite sample spaces, conditional probability and independence, random variables and their characterization, special discrete and continuous distributions, the moment-generating function, sums of random variables, sampling distributions, estimation of parameters, testing hypotheses. Prerequisite: Mathematics 252 or consent of the instructor. Three units. (Not offered 1969-70).

CURRICULA
Entering freshmen who plan to major in Chemistry or in Natural Science with concentrations in Chemistry, Physics, or Mathematics, should plan to take Calculus the first year. It is recommended, therefore, that they present Mathematics through Trigonometry from high school.

All of the programs offered by the Department of Natural
MAJOR IN BIOLOGY

Requirements: At least 24 hours beyond Biology C 40-41, including 208, 303-304, 401-406, and 405-406; also 307 or 309, and one course chosen from 201, 202, and 308; Chemistry C 42-43 and 303-304, Physics C 31-32 and Mathematics 151-152 are required for those planning to go to graduate school.

Freshman

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>Biology C 40-41</td>
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<tr>
<td>Chemistry C 42-43</td>
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<tr>
<td>O.T. and N.T.</td>
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<tr>
<td>English Composition</td>
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<tr>
<td>Mathematics 100</td>
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<tr>
<td>Physical Education</td>
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<tr>
<td>German or French</td>
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Junior

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<tr>
<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>Chemistry 303-304</td>
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<tr>
<td>Biology</td>
<td>4</td>
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<td>Speech</td>
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<tr>
<td>Literature or Music</td>
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<tr>
<td>Western Civilization</td>
<td>4</td>
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<tr>
<td>Electives</td>
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Senior

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<tbody>
<tr>
<td>Biology C 40-41</td>
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<tr>
<td>Chemistry C 42-43</td>
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<td>English Composition</td>
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<tr>
<td>General Psychology</td>
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<tr>
<td>Physical Education</td>
<td>½</td>
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<tr>
<td>Speech</td>
<td>3</td>
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<td>Literature or Music</td>
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<td>Electives</td>
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</table>

MAJOR IN CHEMISTRY

Requirements: At least 24 hours beyond Chemistry C 42-43, including 303-304, 305-306, and 405-406; Physics C 31-32 and 322; Mathematics through 252. German is recommended for those planning to go to graduate school. Biology C 40-41 is recommended for those interested in graduate work in biological or physiological chemistry.

Freshman

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>Chemistry C 42-43</td>
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<tr>
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<tr>
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<td>German</td>
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<td>Physical Education</td>
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<td>18½</td>
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Senior

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
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</thead>
<tbody>
<tr>
<td>Physics C 31-32</td>
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<tr>
<td>Chemistry 303-304</td>
<td>4</td>
</tr>
<tr>
<td>Western Civilization</td>
<td>4</td>
</tr>
<tr>
<td>Principles of Teaching and Learning</td>
<td>3</td>
</tr>
<tr>
<td>Structuring Knowledge</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>3</td>
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MAJOR IN NATURAL SCIENCE—CONCENTRATION IN BIOLOGY

Requirements: At least 16 hours beyond Biology C 40-41; Basic Science C 46; Chemistry C 42-43 and 303-304; Physics C 31-32; Mathematics C 30 and 100. The following curriculum includes the courses in professional education necessary for certification in most states. If a career in education is not contemplated, electives may be substituted.

Freshman

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
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</thead>
<tbody>
<tr>
<td>Biology C 40-41</td>
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<tr>
<td>Chemistry C 42-43</td>
<td>4</td>
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<tr>
<td>O.T. and N.T.</td>
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<tr>
<td>Mathematics 100</td>
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<tr>
<td>Physics C 31-32</td>
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<td>Biology</td>
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<tr>
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Senior

<table>
<thead>
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<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>Biology C 40-41</td>
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</table>

Sciences and Mathematics call for early and extensive counseling of students in order that they be properly informed of the requirements and aims of the programs. A person entering any of these programs will ordinarily have to make his decision earlier in his college career than is necessary for some of the other programs offered by the college.
MAJOR IN NATURAL SCIENCE—CONCENTRATION
IN CHEMISTRY

Requirements: At least 20 hours beyond Chemistry C 42-43; Basic Science C 46; Biology C 40-41; Physics C 31-32 and 322; Mathematics 151-152. The following curriculum includes the courses in professional education necessary for certification in most states. If a career in education is not contemplated, electives may be substituted.

<table>
<thead>
<tr>
<th>Freshman</th>
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<tr>
<td>Chemistry C 42-43</td>
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<td>Biology C 40-41</td>
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</tr>
<tr>
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<td>Conceptualizing Learning</td>
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<td>Literature or Music</td>
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<td>18 1/2 18 1/2</td>
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<thead>
<tr>
<th>Junior</th>
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</thead>
<tbody>
<tr>
<td>Physics C 31-32</td>
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<td>Basic Science C 46</td>
</tr>
<tr>
<td>Chemistry 305-306</td>
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<td>Mathematics 303-304</td>
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<td>Physics 322</td>
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<td>Western Civilization</td>
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<td>Philosophy of the Christian Faith</td>
</tr>
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<td>Designing Teaching—Learning Models</td>
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<td>Student Teaching</td>
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<td>Structuring of Knowledge</td>
<td>3 -</td>
<td>Electives</td>
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<tr>
<td>Doctrine</td>
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<td>6 5</td>
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<td>18 18</td>
<td>16 16</td>
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</tbody>
</table>

MAJOR IN NATURAL SCIENCE—CONCENTRATION
IN MATHEMATICS OR PHYSICS

Requirements: Biology C 40-41; Chemistry C 42-43; Physics C 31-32, 303-304, 321, 322; Mathematics 151-152, 251-252. Physical Chemistry 406-406 is required for those concentrating in Physics; desirable options are Basic Science C 46 and Mathematics 303-304. Mathematics 303-304 is required for those concentrating in Mathematics; desirable options are Basic Science C 46 and Mathematics 305, 316. The following curriculum includes the courses in professional education necessary for certification in most states. If a career in education is not contemplated, electives may be substituted.

<table>
<thead>
<tr>
<th>Freshman</th>
<th>Fall</th>
<th>Spring</th>
<th>Sophomore</th>
<th>Fall</th>
<th>Spring</th>
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<tbody>
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<td>Doctrine</td>
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<td>Mathematics 251-252</td>
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<td>Physics C 31-32</td>
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<td>English Composition</td>
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<td></td>
<td>Foreign Language</td>
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<tr>
<td>Speech</td>
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<td>Education 201-202</td>
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<tr>
<td>General Psychology</td>
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<td>18 1/2 18 1/2</td>
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<td>17 1/2 14 1/2</td>
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<table>
<thead>
<tr>
<th>Junior</th>
<th>Senior</th>
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<tbody>
<tr>
<td>Mathematics 303-304</td>
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<tr>
<td>Physics 321-322</td>
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<td>Western Civilization</td>
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<td>Foreign Language</td>
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<tr>
<td>Education 310 and 308</td>
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<tr>
<td>Electives</td>
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<td>17 17</td>
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</table>

*Under the Concentration in Physics program these courses should be replaced by Physical Chemistry 405-406.
MAJOR IN PSYCHOLOGY

Psychology, though at times dealing with animals, laboratory equipment, or research and statistical techniques, is basically concerned with human behavior. We are investigating such problems as motivation, learning, maladjustment, efficiency, and control.

Psychology is still a scientific infant, and is therefore an interesting amalgam of penetrating insight, rigorous logic, obtuse speculation, trivia, and sheer drive. However, psychologists have made valuable discoveries which are being applied to such diverse fields as industry, space research, urban planning, advertising, mental health, and the ministry. A rapidly growing field, it is attracting increasing numbers of Christians.

Requirements for the Psychology major: In addition to the general requirements for graduation (see page 17), the student is to complete a minimum of 30 hours within the department.

The interdepartmental major in social sciences: In collaboration with the History Department, a major in Social Sciences provides a wider professional background for teaching, social work, the Christian ministry, and other professions. For further information, see page 23.

COURSES IN PSYCHOLOGY

C 39. GENERAL PSYCHOLOGY
The foundation course for the department. A survey introducing the student to the developing organism, motivation, emotion, perception, learning and thinking, personality, individual differences, adjustment and mental health, and social behavior. Three units. Mr. Skaer.

101. MENTAL HYGIENE AND THE CHRISTIAN PERSONALITY
A course designed to introduce the student to useful facts about his own mental health. It discusses both social and academic problems, and outlines the history of mental hygiene in the United States. Open to any student. Three units. Mr. Pitcher.

[201. PROBLEMS OF CHURCH COUNSELING]
Designed for men and women planning for careers in church or mission-related settings. Identification of behavioral and communication problems. Methods of counseling and referral to appropriate community agencies. Three units. (Not offered 1969-70).

202. EDUCATIONAL PSYCHOLOGY
See courses in Education.

[204. SOCIAL PSYCHOLOGY]
Utilizes data from the field of sociology to enable the student to analyze the problems that beset interpersonal and intergroup relationships. Class reports and outside speakers are included. Three units. Prerequisite: General Psychology C 39. (Not offered 1969-70).

301. PSYCHOLOGICAL TESTING
See courses in Education, "Tests and Measurements"

302. DEVELOPMENTAL PSYCHOLOGY OF CHILDHOOD
The physical, mental, and emotional development of the child from birth to adolescence. Three units. Mr. Pitcher.

303. ABNORMAL PERSONALITY
After establishing the design of the healthy personality, this course
traces carefully the main theories of the origin of abnormal conduct and mental disease, outlines the leading schools of thought in this area of psychology today, and integrates the whole in terms of the college's Christian philosophy. Four units. Mr. Nuernberger.

[304. PSYCHOLOGY OF RELIGION]
An analysis of various religions, cults, beliefs, and practices throughout the world to discover how such religions seek to meet the basic needs of the heart of man and why only a truly Christian system of psychology can adequately achieve this. Three units.

305. BEHAVIORAL LEARNING THEORY
Basic concepts in behavior theory, conditioning, motivation, generalization, inhibition, discrimination, verbal learning, memory processes, discrimination learning, concept formation, facilitation and interference, analysis of behavior, and the major theories of learning. An individual research problem is performed. Three units. Mr. Skaer.

306. DEVELOPMENTAL PSYCHOLOGY OF ADOLESCENCE
Traces the maturing of the adolescent in the society of today and its shifting currents and amorality, analyzes his difficulties of adjustment in the home and in society, suggests practical solutions. Three units. Mr. Pitcher.

306. THEORIES OF PERSONALITY
An intensive, student-led study of major personality theorists using original writings and survey materials. Includes Freud, Rogers, Gestaltism, Learning Theory, Mowrer, Frankel, and Glasser. Three units. Mr. Nuernberger.

308. DYNAMICS OF SOCIAL CHANGE
A study of human society in progressive change, turmoil and revolution. Analysis is made of both peaceful and violent forces that are operating in the world today, especially in urban and suburban life, in minority groups, and nationalistic fever in other continents. Three units. Mr. Pitcher.

[316. DATING AND MARRIAGE]
A student-run course centered in problems of dating and marriage. Students select goals, design the semester's program, select resource materials and invite qualified professionals for lectures and discussions. Three units. (Not offered 1969-70).

[402. PRACTICUM IN COUNSELING]
To be taken with Psychology 404A. Students with adequate background in psychology are designated as counselors to children enrolled at Bethel Bible School. Written reports and taped group therapy interviews are shared in Section A of the seminar in psychotherapy. Three units. Mr. Nuernberger.

404. SEMINAR IN PSYCHOTHERAPY
Two sections (A and B) are open to advanced psychology students only. Study of techniques of psychotherapy by application of its principles to group members themselves. Section A taken with Psychology 402. Section B for students now taking Psychology 402. Three units.

410. INDEPENDENT STUDY
Hours, credits, and assignments to be arranged through the department chairman.

EDUCATION
Covenant College's desire to produce the very best kind of teacher has led to extensive revision in the education department. Prospective teachers will major in academic disciplines and not simply in a program of professional education courses.

Covenant College believes that it is important for all prospective teachers to obtain a strong foundation in an academic discipline, whether the school for which he is preparing is a Christian or a public school.

Pre-professional courses in education are open to all students except freshmen on an elective basis. The courses presently available provide both the basic content and sequence needed by any student considering teaching as a profession. This sequence also provides a total of 18 semester hours in education which is usually sufficient for certification on the secondary level. This, however, differs from state to state.

Certification on the elementary level is a bit more complicated. The education department hopes soon to provide a broader sequence of courses for those students interested in elementary education.

To qualify for specific state certification many graduates continue their education in other colleges and universities. In Tennessee and Georgia, requirements for a secondary certificate can be completed by taking nine hours in one summer. Many graduate schools are offering a Master of Arts in Teaching program specifically designed for liberal arts graduates who have majored in an academic discipline. Certification and a master's degree are obtained simultaneously in such a program.

Requests for Covenant-educated teachers continue to exceed the number of those available. Graduates who study education based upon scriptural principles are equipped to become educators who can meet the challenge of modern educational decision-making processes. Further challenge lies in the fact that the education profession offers many other avenues of service besides that of the classroom teacher. The course sequence listed below is basic for any area in the field of education today.
COURSES IN EDUCATION

201. PRINCIPLES OF TEACHING AND LEARNING
Scriptural principles of education are studied to provide a basis for understanding the teaching and learning processes. An analytical approach to the study of teaching follows concentrating on the teaching process and the learning environment, analytical techniques, teaching examples, and demonstrations for analysis. Three units. Mrs. Steensma.

202. EDUCATIONAL PSYCHOLOGY
The content is basically the psychology of learning and includes the formation of concepts basic to directing cognitive operations; critical thinking; processes of learning; analysis of learning situations; cognitive elements and processes; cognitive tasks. Three units. Mrs. Steensma.

301. TESTS AND MEASUREMENTS
The objectives of this course are to review standardized achievement and intelligence tests. This provides the foundation for teachers in various fields of education including workers in psychology. It emphasizes the use and interpretation of tests and is a prerequisite to advanced and more specialized testing courses. Three units. Mrs. Graf.

306/308. DESIGNING TEACHING-LEARNING MODELS
The content is shared by all students regardless of interest, elementary (306) or secondary (308) levels. Students register by number for certification purposes. The course includes the synthesis of teaching, learning, and content concepts; testing and evaluating; assessing the adequacy of cognitive schemes to defined purposes; the formulation and answering of basic instructional questions; developing and testing learning experiences; teaching strategies. Three units. Mrs. Graf.

310. STRUCTURE OF KNOWLEDGE
The academic disciplines are analyzed according to the formation of concepts basic to the organization of instructional content; structures of knowledge; kinds of knowledge; analysis of content; strategical planning and operating in the structure and forms of knowledge. Three units. Mrs. Steensma.

313,314. TEACHING OF PHYSICAL EDUCATION
See courses in Physical Education

404. STUDENT TEACHING
Students spend a total of 180 clock hours in selected direct experience in classrooms. A weekly seminar is conducted with the college supervisor. Six units. Mrs. Steensma.

410. INDEPENDENT STUDY
Seniors with a minimum of nine units in education may enroll by permission of the instructor. One, two, or three units. Mrs. Steensma.

NURSING EDUCATION

The program in nursing education is designed to begin the development of understandings, attitudes, and skills which will enable the Christian student to become an effective professional nurse. The program is philosophically oriented toward the principle that the student's best personal preparation for meeting the spiritual, emotional, and physical needs of those under her care is her own maturing knowledge of God's Word.

Demands on nurses are being qualified in many ways through our changing society and rapid technological changes affecting the world of medicine. Leaders in nursing have taken the position that these demands can best be met by the professional nurse who receives her education in a college or university where all the nursing courses, as well as the general education courses, are taught by those who are members of the faculty of that college or university.

Covenant College recognizes this trend and has made arrangements with several of the country's leading collegiate schools of nursing to allow qualified students to enter these schools to work toward the B.S. in Nursing. By the satisfactory completion of the pre-nursing curriculum at Covenant College the student may in two academic years meet course requirements for admission to the College of Nursing, University of Tennessee, Memphis, Tennessee; Faculty of Medicine, School of Nursing, Columbia University, New York City; and the School of Nursing, Emory University, Atlanta, Georgia.

At the University of Tennessee and at Emory University the B.S. in Nursing can be earned in three additional academic years; at Columbia University the program can be completed in two academic years and two summer sessions.

Requirements for Pre-Nursing Program:

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<thead>
<tr>
<th>First Year</th>
<th>Fall</th>
<th>Spring</th>
<th>Second Year</th>
<th>Fall</th>
<th>Spring</th>
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43
Electives taken will be selected from among the following courses in consultation with the chairman of the department according to the requirements of the school of nursing which the student enters in her junior year: Literature, Bible, Mathematics, Sociology, Speech, Intermediate Foreign Language, History, Philosophy, Psychology, Fine Arts.

**COURSE IN NURSING EDUCATION**

**101. INTRODUCTION TO NURSING**

A survey of the field of nursing including objective criteria to be used in choosing nursing as a career, technological and sociological phenomena influencing the demands made on nurses today, and educational opportunities which can best qualify the nurse to meet these demands. Emphasis is placed on the necessity of learning to regard the total needs of the patient, and, through discussion, a preliminary philosophy is formed for the Christian nurse to meet these needs. A non-credit course. Mrs. Schmidt.

**PHYSICAL EDUCATION**

Physical Education is required of all freshmen and sophomores except in cases of physical disability. Physical Education is offered to freshmen to keep body tone and coordination and to promote an invigorating outlet which serves as a balance to the sedentary demands of college. All sophomores are required to take one semester of First Aid, which is offered to instill knowledge of safety procedures for accidents. All students must complete three semesters of Physical Education to graduate. Each class meets twice weekly.

All students are subject to a $7.50 Physical Education fee, and must be prepared to wear the standard school uniform to class. Students will have the opportunity to enhance their skills in swimming, speedball, basketball, volleyball, tumbling, softball, tennis, golf, bowling, and horseshoes.

In addition to the Physical Education requirement, a complete program of intramural games and intercollegiate sports is offered. The intramural program enables students to compete on a team and individual basis against members of the other three classes and the faculty. The winning men’s and women’s teams are presented trophies, known as the President’s Cup, which are kept for one year. All students are encouraged to participate in the intramural program. The intercollegiate program consists of men’s soccer, basketball, baseball, and track.

**COURSES IN PHYSICAL EDUCATION**

**Required courses for men and women:**

C 36-37. HEALTH AND PHYSICAL EDUCATION
   Two semesters. One unit. Fee: $7.50. Mr. Bowman.

C 38. FIRST AID
   One semester. One unit. Fee: $7.50. Mr. Bowman.

**Electives**

201. RED CROSS WATER SAFETY INSTRUCTION
   One unit.

203. KARATE
   Instruction in the practice of this Japanese form of self-defense. Meetings at least five times weekly. Fee: $50.00. One unit.

300. HORSEBACK RIDING
   A special off-campus course where all the special skills in riding are taught. All students must provide their own transportation. Cost is $25.00 per semester. One unit.

311. INDIVIDUAL SPORTS
   This course in teaching of individual sports includes bowling, badminton, tennis, golf, horseshoes, etc. Strategy, courtesy, and game etiquette are also introduced. Three units. (Not offered 1969-70).

312. TEAM SPORTS
   Methods of soccer, basketball, baseball, and volleyball are stressed. Principles of rules and officiating are also introduced. Three units. (Not offered 1969-70).

313. PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL
   The methods and materials for teaching physical education in the elementary school are considered. Curriculum planning, integration and correlation of the academic and the physical activity class, selection of materials, teaching techniques, and the selection of suitable activities for the elementary grades are emphasized. Three units. Mr. Bowman.

314. PHYSICAL EDUCATION IN THE SECONDARY SCHOOL
   The nature, scope, and potential of physical education in today’s secondary school are considered. The role of physical education in the secondary school, curriculum planning, principles of teaching and scheduling, and unit planning are included in the course. Three units. Mr. Bowman.

316. PSYCHOLOGY OF COACHING
   The methods and strategy involved in coaching in all sports are stressed in this course with special emphasis on soccer, basketball, and baseball. Three units. (Not offered 1969-70).

400. INDEPENDENT STUDY
   This is offered to qualified seniors who have a special interest in the area of physical education and recreation. One semester. One or two units. Mr. Bowman.
In its belief that one of the distinctive values of the small liberal-arts college is the ability to bring the various disciplines together to share their insights and techniques, Covenant College intends to offer courses of an inter-disciplinary nature, usually team-taught, in order to stimulate a bridging by both faculty and students of the gaps existing between what may be rather arbitrarily divided areas of study.

For 1969-1970 the following such course will be taught:

205. HISTORY AND CULTURE OF THE AMERICAN NEGRO
A team-taught course on the Negro in America, his history, his cultural accomplishments, and the social problems that have accompanied him. Enrollment open to freshmen with permission. Three units. Mr. W. Barker, Mr. N. Barker, Mr. Sanderson.
A major part of a student's education is gained outside the classroom through participation in extracurricular activities, where one frequently learns lessons of teamwork, patience, endurance, reception of criticism, performance, and leadership. As a result, he finds out what gifts he has been given and develops the ability to apply them responsibly. As a small college, Covenant offers a variety of extracurricular activities for all capable students, including:

Student Council, Christian Service Council, Student Discipline Committee, Social Committee, Student Missions Fellowship, Literary Society, Music Club, History Club, Pre-Ministerial Club, Pep Club, Publications (weekly student newspaper and annual yearbook), Drama Club, Chorale, Madrigal Singers, College-Community Chorus, Intra-Mural Athletics, Varsity Sports.
GENERAL STATEMENT

It is the desire of Covenant College, within the limits of its available funds, to offer its Christian educational opportunities to all who qualify for admission, regardless of individual economic circumstances.

The cost of an education at Covenant is only partly covered by tuition charges; the balance is paid from contributions made by friends and alumni of the College. Because of increasing costs, the Board of Trustees reserves the right to make changes at any time in the tuition charges and other general and special fees.

The college requires that each student have sufficient funds on hand to cover the expenses of the first semester. It is not advisable for a freshman, particularly during the first semester, to attempt to earn any substantial part of his college expenses by outside employment.

The college does not require the signing of a formal agreement by the student. However, registration constitutes an agreement to accept and abide by all rules and regulations of the college affecting finance. The college does not maintain a billing system to parents but expects each student to take care of his account. This is part of the educational process, develops a sense of responsibility of meeting one's obligations promptly, and familiarizes the student with the investment made in his education. The Registrar's office will not issue transcripts of academic credit for students with unpaid college accounts.

FEES AND EXPENSES

General

- Application fee (payable only once) $10.00
- Dormitory equipment fee (payable only once, not refundable, being applied against the general upkeep of residence facilities) 10.00
- Key deposit 1.00
- Tuition, per year, for 12-17 hours per semester 980.00
- Tuition, for students taking less than 12 hours, per unit 40.00
- Tuition, for hours in excess of 17, per unit, 22.00
- Student Activity fee, per year 70.00
- Laboratory fees, see course descriptions
- Health fee, including 9 months' insurance, per year 30.00
- Physical education fee, per year 15.00
- Library fee, per year 10.00
- Graduation fee (including Graduate Record Examination) 25.00
- Chorale fee (payable once) 3.00

Residence

- Board, per year 555.00
- Room in dormitory, per year (includes linens) 330.00

Special

- Deposit on fees (not refundable) 50.00
- Late registration 10.00
- Change in course 5.00
- Late placement tests, each 10.00
- Examinations taken at unscheduled hours, each 5.00
- Transcripts, after the first, each 1.00
- Auto registration fee, per year 10.00
- Transportation, to or from planes and trains: to be announced
- Auditing fee, per unit 20.00

Music

Fees for Private Instruction:

- For full-time students:
  - One half-hour lesson weekly, per semester $32.00
  - Two half-hour lessons weekly, per semester 64.00
For students enrolled for less than 12 units:
  One half-hour lesson weekly, per semester 48.00
  Two half-hour lessons weekly, per semester 96.00
For students not enrolled in the college:
  One half-hour lesson, per half hour 4.00
Fees for practice on piano:
  One practice hour daily, per semester 5.00
  Two practice hours daily, per semester 9.00
Fees for practice on Hammond organ:
  Each hour .50

BOARD AND ROOM
All college students must live in the dormitory unless specifically excused by the Dean of Students.

Meals are served beginning on registration day through final examinations, with the exception of the fall and spring recesses.

Rooms may be occupied without charge by returning students on the day before registration and by new students on the day before the orientation and testing program begins.

Linen service, including two single bed sheets, a pillowcase, and two towels, will be provided for students on a weekly basis.

PAYMENT OF COLLEGE CHARGES
Policy. Inasmuch as a student’s account cannot be estimated exactly in advance of registration day, it is required that the amount of Tuition, Room, Board, Linen Rental, Student Activity Fee, and Library Fee be paid at registration. This amount is $972.50. The amount of any additional cost for books and special fees may be forwarded to parents by the student.

A $25.00 late payment fee will be charged on any account for which payment is received after 10 days from date of registration. If necessary, the Business Office will gladly assist students in their efforts to secure needed funds from external sources such as bank loans, government loans, and scholarship funds. Such assistance must be sought prior to the time of registration, and no student will be admitted to classes unless he has made complete arrangements for the full payment of all charges due.

Budget Estimate for a College Year. It is suggested that each student prepare in advance an estimate of his expenses for a college year (two semesters). In addition to the charges itemized under Fees and Expenses, the student should include in such an estimate his travel expenses, clothing, laundry, cleaning, and incidental personal expenses. Books and supplies will normally cost $80.00 to $100.00 a year. Students provide their own blankets (for single beds) although other linens are supplied as described under Board and Room. It is customary for roommates to consult each other after arrival about the color scheme for bed spreads and any other room accessories they desire.

SCHOLARSHIPS AND LOANS
Covenant College is desirous of assisting worthy students to receive a quality education. To this end, funds have been set aside which are largely underwritten by friends of the college, foundations, and the federal government.

1. Tuition Scholarships
   A modest number of academic scholarships amounting to one-half of the tuition are awarded each year. In order to be eligible for renewal, a student must maintain a 3.3 grade-point average.

   Some music scholarships are awarded to music majors who maintain a 3.0 grade-point average. This amounts to one-half tuition plus music fees and is renewable upon recommendation from the Music Department.

   The Board of Trustees has established the Reformed Presbyterian Leadership Scholarships, granted only to entering freshman men who are members of the Reformed Presbyterian Church and who have shown leadership potential based upon their activities in the church, in the community, and in their high schools.
II. Grants in Aid

Several athletic grants are awarded towards tuition based upon athletic prowess and contribution to the Covenant College athletic program. These are renewable each year subject to the approval of the Athletic Department and the maintenance of a 2.0 grade-point average.

Economic Opportunity Grants, sponsored by the United States Department of Health, Education, and Welfare, are available to students who are United States citizens and who can demonstrate need in line with the provisions set forth by the Health, Education, and Welfare office.

Ministerial grants (one-fourth of tuition) are awarded to dependent children of ordained Reformed Presbyterian ministers engaged in full-time pastorate, Christian service, board-appointed mission work, or retired from the same. Those who are eligible must file an application. A small number of these scholarships are available to non-Reformed Presbyterians based upon financial need.

Professional Food-Service Management has provided funds for tuition assistance each year.

The editors of the college publications, the Bagpipe and the Tartan, are granted tuition assistance.

The Barrows Endowment Fund, established by Mr. and Mrs. Fred C. Barrows of Lookout Mountain, provides tuition assistance for a freshman student from Georgia, Alabama, or Tennessee.

The Donald Andrew Mouritzen Memorial Prize has been established by the family of Donald Andrew Mouritzen, a Covenant student in 1964-65 who entered the armed services of the United States and was killed in action in Viet Nam in 1967. The annual $25.00 prize is awarded to an upper classman who has made a significant contribution to the athletic program of the college.

III. Loans

National Defense Student Loans are made available through the National Defense Education Act Loan Program sponsored by the United States Department of Health, Education, and Welfare. Funds are available to students who can demonstrate need in line with the provisions set forth in the act.

United Student Aid Fund Loans are set up through a private non-profit service corporation which endorses low-cost, long-term loans to students through local banks. For additional information write to the Business Office of Covenant College or visit your local bank. Collateral for the loans is protected by the Covenant College deposit in the United Student Aid Fund insurance reserve.

The Annie Irvine Scott Loan Scholarship Fund (a memorial to the late Annie Irving Scott of Gainesville, Texas) has been established at Covenant College and is available to students who are preparing for full-time Christian service and who are unable otherwise to obtain funds for their education.

The Clara Belle Dinkle Memorial, established by Captain and Mrs. Martinus Uding in memory of Mrs. Uding's aunt, is designated for the assistance of students seeking a nursing education. If such students are not available, this loan fund is to be used for assistance to children of missionaries.

IV. Work Scholarships

A limited number of work scholarships is available to students who need financial assistance and whose scholastic record is satisfactory.

Inquiries concerning financial aid should be addressed to the Chairman of the Student Aid Committee, Dr. Paul R. Gilchrist. Application for any financial assistance must include a family financial statement filed through the American College Testing Program, P.O. Box 1000, Iowa City, Iowa 52240, by May 1.
V. Private Lending Agency

Education Funds, Inc., Providence, Rhode Island, offers its services to those who wish to enroll on a comprehensive payment program covering one to four years of education. This attractive plan has the added benefit of parent life insurance and a modest interest rate.

REFUNDS

Compulsory Withdrawal. When a student is requested to withdraw because of unsatisfactory academic work, failure to comply with regulations of the college, or personal conduct considered to be injurious to the maintenance of wholesome campus life, no fees will be refunded or remitted.

Schedule. Refunds are granted only upon written application to the Business Office of the College. The College will normally adjust accounts on tuition, board, and music fees. The following policy will prevail:

If the student leaves during the second week, a refund on tuition and music fees of 80%; during the third week, 60%; during the fourth week, 40%; during the fifth and sixth week, 20%; after the sixth week, no refunds.

Board refund will be prorated based on days remaining in the semester.

Veterans. The refund policy of Covenant College shall be in accordance with the regulations of the Veterans Administration, Section 254, Public Law 550, that is, it shall maintain "a policy for the refund of the unused portion of tuition, fees, and other charges in the event a veteran fails to enter the course or withdraws or is discontinued therefrom at any time prior to completion and such policy provides that the amount charged to the veteran for tuition, fees, and other charges for a portion of the course does not exceed the approximate prorata portion of the total charges for tuition, fees, and other charges that the length of the completed portion of the course bears to its total length."

PART-TIME EMPLOYMENT

Part-time employment is available to many students in the nearby communities. Some students earn only a few dollars under the part-time work program, while other students earn a substantial part of their college expenses. The college cannot guarantee employment to any of its students, but offers assistance in obtaining part-time jobs. A student who needs to earn part or all of his college expenses must have his work plans approved in advance and arrange his academic load in special conference with his adviser.
**College Calendar** 1969-1970

**SUMMER SESSION**
July 7  Registration, first day of classes
Aug 15  Last day of classes
Aug 16  Final examinations

**FALL SEMESTER**
Aug 18  Soccer camp begins
Aug 26  New students arrive on campus
Aug 26  Faculty reception for new students and parents
Aug 27-28  Academic orientation and placement tests for new students
Aug 27-31  Spiritual life meetings
Aug 28  Registration of upperclassmen
Aug 29  Registration of freshmen and transfer students
Aug 30  School outing
Aug 31  Opening convocation
Sep 1  Classes begin
Oct 15  Grub day

Oct 17  Mid-semester marks due
Oct 18  Homecoming
Oct 20-27  Fall recess (begins at 1 p.m.)
Oct 24  College for a day
Oct 28-Nov 3  Lectures by Dr. Francis A. Schaeffer
Nov 18  Day of Prayer
Nov 27  Thanksgiving Day recess
Dec 5  Christmas banquet
Dec 11  Last day of classes
Dec 11-19  Final exams (including Thanksgiving day recess)
Dec 5  Christmas banquet
Dec 12  Last day of classes
Dec 13-19  Final exams (excluding Saturday and Monday morning)

**SPRING SEMESTER**
Jan 6  Registration of upperclassmen
Jan 7  Registration of freshmen and transfer students
Jan 8  First day of classes
Jan 12-17  Art exhibit
Jan 19-23  Conference on evangelism
Feb 26  Day of Prayer
Mar 2  Mid-semester marks due
Mar 13-23  Spring recess (begins at 1 p.m.)
Mar 26-30  Christian Thought Conference
Mar 31  Grub day
Apr 24  Last day of classes
Apr 25-May 1  Final exams (excluding Saturday and Monday mornings)
May 2  Commencement

Concerts, lectures, and other cultural and athletic events are also scheduled throughout the year.

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**MAP OF CHATTANOOGA AND LOOKOUT MOUNTAIN**

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**DOWNTOWN CHATTANOOGA**

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**STAR SUBURBAN SHOPPING CENTERS**

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Correspondence concerning college affairs may be directed to the following offices:

GENERAL INFORMATION
Marion D. Barnes, President

ADMISSIONS INFORMATION
APPLICATION FORMS
TRANSCRIPTS
Rudolph F. Schmidt, Director of Admissions

STUDENT AFFAIRS
SCHOLARSHIPS AND FINANCIAL AID
Paul R. Gilchrist, Dean of Students

FACULTY
COURSE OFFERINGS
William S. Barker, Dean of the Faculty

STUDENT ACCOUNTS
STUDENT EMPLOYMENT
Richard Steensma
Vice-President for Business Affairs

PUBLIC RELATIONS
PUBLICATIONS
ALUMNI AFFAIRS
INVESTMENT OPPORTUNITIES
E. Allen Duble, Director of Development

Address all correspondence:
COVENANT COLLEGE
Lookout Mountain
Tennessee 37350

"That in all things, Christ might have the preeminence." (Colossians 1:18)