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STATEMENT OF PURPOSE

Covenant College is a Christian liberal-arts institution of higher education, 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.

The purpose of Covenant College is stated in its motto—"That in all things Christ might have the preeminence" (Colossians 1:18). We serve this purpose as a college dedicated to academic excellence and to the education of the whole man, and we believe that we have the responsibility of working out the implications of Christ's preeminence in every activity of the college, whether in the classroom or not.

Specifically, we acknowledge Christ preeminent as the creator of all things, as the redeemer of men fallen into sin, as the touchstone of all truth, and as the sovereign ruler over all areas of life. It is in the light of these concepts that we define the general aims of our instructional program:

1. to see creation as the handiwork of God and to study it with wonder and respect;
2. to acknowledge the fallen condition of ourselves and of the rest of creation and to bring every thought and act into obedience to Christ, reclaiming the creation for God and redirecting it for the service of God and man;
3. to receive the many valuable insights into the structure of reality, provided by the good hand of God through men of learning in every age, and to re-form such insights according to the Word of God;
4. to confront each member of the college community with his personal responsibility for performing these tasks in every area of his life.

A student at Covenant College should be able to demonstrate his ability:

1. to articulate in speaking and writing his thinking in each area of study he pursues;
2. to use the Bible meaningfully in every area of life;
3. to pursue methods of inquiry valid to each area of study and, through this pursuit, acquire a measure of content within the natural sciences, the social sciences, and the humanities;
4. to participate in a variety of activities (sports, clubs, etc.);
5. to apply his studies to the needs of contemporary society.
FACULTY, ADMINISTRATION, STAFF, AND BOARD

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

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

AUSTIN, A. Kenneth, Associate Professor of History (1972)
  Ph.D., University of Georgia; M.A., East Tennessee State University; B.A., Gordon College; B.D., Westminster Theological Seminary

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

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

BOESE, Bellinda U., Instructor in Modern Languages (1973)
  M.A., Washington University; B.A., Fontbonne College

BOWMAN, Walter L., Assistant Professor of Physical Education (1967)
  M.A., Michigan State University; B.S., Gordon College

CLARK, Raymond W., Assistant Professor of Bible (1966)
  Th.M., Trinity Evangelical Divinity School; B.D., Covenant Theological Seminary; B.R.Ed., Detroit Bible Institute

CUMMER, John P., Associate Professor of Education (1970)
  Ed.D., Florida State University; M.S., Indiana University; A.B., Wheaton College

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

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

FENNEMA, John E., Assistant Professor of Education (1971)
  M.A., Florida Atlantic University; B.A., Calvin College

FITZGERALD, Eugene F., Instructor in Physical Education (1973)
  B.A., Gordon College

GILCHRIST, Paul R., Associate Professor of Bible (1967)
  Ph.D., Dropsie College; B.D.; Faith Theological Seminary; B.A., Columbia Bible College
GRAHAM, Donovan L., Assistant Professor of Education (1972)
   Ed.D. and M.A., New Mexico State University; B.A., University of Northern Colorado

HALVORSEN, Ira David, Associate Professor of Music (1972)
   M.M., Eastman School of Music; M.A., Ohio State University; A.B., Morningside College; B.D., Grace Theological Seminary

HAMM, John, Associate Professor of Music (1964)
   M.M., Eastman School of Music; Mus.B., John Brown University

HESSELINK, Paul K., Assistant Professor of English (1972)
   M.A., University of Chicago; A.B., Hope College

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

HURLEY, James B., Instructor in Bible (1974)
   Ph.D., Cambridge University; B.D., Westminster Theological Seminary; B.A., Harvard University

KEISTER, Jamieson C., Assistant Professor of Physics (1970)
   Ph.D. and M.S., Georgetown University; B.E.P., Cornell University

KELLOGG, Edward K., Instructor in Art (1973)
   M.A. and B.A., San Diego State College

KRABBENDAM, Hendrick, Associate Professor of Bible (1973)
   Th.D. and Th.M., Westminster Theological Seminary; B.D. (equiv.) and B.A. (equiv.), Theologische Hoogeschool

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

MAWHINNEY, Allen, Instructor in Greek (1972)
   B.D., Westminster Theological Seminary; B.A., William Jennings Bryan College

McLELLAND, Reginald F., Assistant Professor of Philosophy (1972)
   Ph.D. and M.A., University of Georgia; A.B., Western Carolina College

MULLER, John S., Assistant Professor of Sociology and Psychology (1971)
   Ph.D. and M.S., Florida State University; B.A., Covenant College; B.D., Westminster Theological Seminary

PARKER, Craig A., Assistant Professor of Music (1972)
   M.A. and B.A., Western Washington State College

SANDERSON, John W., Jr., Professor of Philosophy (1963)
   A.M., University of Pennsylvania; A.B., Wheaton College; S.T.M. and B.D., Faith Theological Seminary; D.D., Geneva College
SCHMIDT, Collyn F., Assistant Professor of Nursing Education (1959)
M.S., Washington University; B.S., University of Iowa; M.R.E., Faith Theological Seminary

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

SLENKER, Marilyn K., Assistant Librarian (1970)
M.A. in Library Science, University of Iowa; B.A., Shelton College

STEENSMA, Geraldine J., Educational Consultant Directing the Teacher Education Program (1968)
M.A., Columbia University Teacher’s College; B.S. in Education, Slippery Rock State College

VANDER ARK, Nelle A., Associate Professor of English and Education (1969)
(on leave of absence, fall, 1973)
A.M., University of Michigan; A.B., Calvin College

VOSKUIL, Louis J., Associate Professor of History (1972)
M.A., Loyola University; A.B., Calvin College; B.D., Westminster Theological Seminary

WENGER, Jerome D., Assistant Professor of Biology (1972)
M.A. and B.S., Western Michigan University

YOUNG, Jane B., Assistant Professor of English (1963)
M.A., Texas Women’s University; B.A., Covenant College

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

Administration
President: Marion D. Barnes, Ph.D., LL. D.
Dean of the Faculty: Nicholas P. Barker, Ph.D.
Dean of Students: John P. Cummer, Ed.D.
Vice President of Business Affairs: John H. Barnes, B.A.
Director of Development: C. Don Darling, M.A., B.D.
Chaplain: John MacGregor, B.D., B.A.
Assistant Dean of the Faculty: Charles W. Donaldson, Ph.D.
Dean of Admissions and Records: Rudolph F. Schmidt, M.A.T.
Associate Dean of Students: Collyn F. Schmidt, M.S., M.R.E.
Associate Dean of Students: Donovan L. Graham, Ed.D.
College Staff

Adams, Robert G.—Assistant to the Director of Development
Blevins, Ron—Maintenance and Operations
Brauer, Elwood—Supervisor of Housekeeping
Burdett, G. Craig—Controller
Crooks, Phyllis—Manager of Accounting
Fretts, Robert J.—Director of Purchasing and Office Services
Graf, William, Jr.—Director of Engineering
Harrison, Rosemary—Library Clerk
Henning, George—College Recruiter
Jackson, Carol—Library Clerk
Judd, Virginia—Manager of Bookstore
Lykins, Jay—Director of Student Work Programs and Conferences
MacGregor, Jane—College Hostess
McKinley, Ruth—Development Coordinator
Meffert, Shirley J.—Secretary to the President
Melton, Jennifer—Recruiting Office Secretary
Moore, Fern—Secretary to Dean of Admissions and Records and to Dean of Faculty
Moore, John—Supervisor of Maintenance and Operations
Simmons, Floyd—Assistant Superintendent of Buildings and Grounds
Sims, Marie—Manager of Office Services
Sims, Willard—Supervisor of Grounds and Equipment
Wetzel, Arline—Assistant to the Deans

Board of Trustees

CLASS OF 1974

MARK BELZ—Attorney-at-Law, Cedar Rapids, Iowa. B.A., Covenant College; J.D., University of Iowa
K. RAY CRAWFORD—Insurance Agent, K. Ray Crawford Agency, Pittsburgh, Pennsylvania
JAMES J. KAUFMANN—Electrical Engineer, Huntsville, Alabama. B.S.E.E., Purdue University
DANIEL E. McELWAIN—Assistant Vice President and Office Manager, The York Bank and Trust Company, York, Pennsylvania
P. ROBERT PALMER—Director of Development, Covenant Theological Seminary, St. Louis, Missouri. A.B., Wheaton College; B.D., Covenant Theological Seminary
VERNON C. PIERCE, Chairman—Administrator, The Quarryville Presbyterian Home, Quarryville, Pennsylvania. 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 1975

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

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

DONALD STANTON—Pastor, Bethel Orthodox Presbyterian Church, Oostburg, Wisconsin. B.D., Westminster Theological Seminary

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

CLASS OF 1976

WILLIAM S. BARKER—Dean of Faculty, Covenant Theological Seminary, St. Louis, Missouri. A.B., Princeton University; M.A., Cornell University; B.D., Covenant Theological Seminary; Ph.D., Vanderbilt University.

LOU BARNES—Pastor, Valley Presbyterian Church, Sepulveda, California. B.A., Bob Jones University

RICHARD C. CHEWNING—Economist, University of Richmond, Richmond, Virginia. B.S., Virginia Polytechnic Institute; M.A., University of Virginia; Ph.D., University of Washington.

CHARLES R. COX—Daniel Construction Company, Greenville, South Carolina. A.B., Covenant College; M.B.A., University of Chattanooga

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.

KENNEDY SMARTT—Pastor, West End Presbyterian Church, Hopewell, Virginia. A.B., Davidson College; B.D., Columbia Theological Seminary

TOM WATSON, JR.—Pastor, Covenant Presbyterian Church, Lakeland, Florida. B.A., University of Florida

LUDER G. WHITLOCK, JR.—Pastor, Covenant Presbyterian Church, Naples, Florida. B.A., University of Florida; B.D., Westminster Theological Seminary
 GENERAL INFORMATION

The Lord Jesus Christ prayed to the Father concerning His disciples, "I have given them Thy word; and the world has hated them, because they are not of the world, even as I am not of the world. I do not ask Thee to take them out of the world, but to keep them from the evil one. They are not of the world, even as I am not of the world. Sanctify them in the Truth; Thy word is Truth. As Thou didst send me into the world, I also have sent them into the world."

Covenant College exists to help produce these distinctive traits of disciples: like Jesus, not of the world; like Jesus, into the world. As the Apostle Paul wrote to the Philippians, Christians have their citizenship in heaven; but as he also wrote to the Corinthians, this does not mean that we must go out of this world. Too frequently Christians have tried to remove themselves from the world only to find that their spirit is no less worldly.

Founded in 1955 by the Reformed Presbyterian Church, Evangelical Synod and established in 1964 on Lookout Mountain in the northwest corner of Georgia, overlooking Chattanooga, Tennessee, Covenant represents total commitment to Jesus Christ and His Kingdom and the extension of that kingdom into all the world and into every facet of the world's God-appointed activity, including the understanding and development of the natural creation, the producing of constructive social relationships in business, home, school, and state, and the cultivation of the arts.

The achievement of these ends, Covenant believes, is best realized through liberal-arts education based on the Bible, the written word of God. The aim is to provide a community of Christian scholars that will enable faculty, students, and graduates to glorify and enjoy God to the fullest and thus to achieve man's chief end while loving God with all our heart, soul, mind, and strength and loving our neighbors as ourselves.

Campus

Covenant's campus provides many of the features which educators elsewhere are seeking—proximity of learning to living environment, intimacy of fellowship among students and faculty, unity of spiritual, intellectual, and physical development. Until last year nearly all classrooms, residence halls, dining facilities, and chapel have been located in one large building, Carter Hall. The completion of a residence hall for men, a new physical education building, and the new Kresge Library in 1972 enhances these features by providing specialized facilities which contribute to a unified sense of purpose.

Library

The library collection, including 60,000 items, is housed in the Anna E. Kresge Library near the center of the campus. The building features individ-
ualized study carrels throughout the stack areas. Included in the library are
the beginnings of the large Stanley S. and Dorothy McVittie Kresge Collection
for Christian Learning, a gathering of books and other resources chosen spe-
cifically for their ability to help students integrate their own courses of study
with their Christian commitment. Also included is the T. Stanley Soltau
collection of books in Bible and missions.

Practical Work

Learning is to be pursued not only in books, but also in practical experience.
Christianity has established the dignity of labor, and the Reformed faith in
particular has emphasized the duty of man to serve God in a variety of call-
ings, including the high privilege of cultivating God’s creation as a part of
Christ’s kingdom work. For this reason, every student is engaged in three
hours of weekly practical work on the campus, and twice a year faculty and
students join in a “Grub Day” to maintain, repair, and beautify the college
buildings and grounds.

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 ser-
vice 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 neigh-
bor 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 Principles:

Two convictions give substance and direction to the standards of conduct at
Covenant College:

—the implication of Christ’s preeminence must be worked out in all areas of
our lives.

—a sovereign and living God has communicated propositional truth to us.

Put together, these two convictions mean that we must confront one
another with the authority of God’s propositional truth in a spirit of loving
concern, judging our every act and decision by asking ourselves: Is Christ
honored by this?

The standards of conduct, summarized here and fully stated in the Student
Handbook, represent our effort to apply Biblical principles to problems in-
herent in a community of Christian scholars. Their object is to provide an atmosphere conducive to spiritual, social and physical growth.

We emphasize accountability. Before God, we must give account for what we do with our minds, our bodies, our time. Wasting or abusing any of these dishonors the God who also committed them to our keeping.

We also emphasize fellowship. Fellowship, first of all with God; secondly, with our brothers and sisters in Christ. That which breaks or strains either dimension of fellowship must be avoided or, where necessary, prohibited.

When many people come together to live in any sizeable community, it becomes necessary to adopt certain regulations which would not be necessary if a person were to live alone or with only a few others. A person voluntarily joining a community commits himself to following its regulations. Full community participation implies thinking carefully and critically about those regulations and participating in framing changes when change is needed. Covenant College students are expected to exercise both aspects of community participation: compliance with existing regulations and participation in discussion concerning needed change.

The Specific Regulations:
The act of registration is considered a pledge on the part of the student to abide by College rules and regulations. Specifically, students are required to seek in all things to live in conformity to the moral law of God as set forth in the word of God, and, secondarily, to abstain from alcoholic liquors, smoking or any use of tobacco, social dancing, gambling, and any illegal use of drugs or narcotics.

Because motion picture attendance is an area in which students must often make difficult choices, the Dean of Students, Faculty Advisers, and Student Government regard it as their responsibility to counsel students concerning the principles which should guide them in their selections. This counseling responsibility is considered to be one of education, guidance and admonition; not one of legislation.

Details of these basic regulations and all others are given in the Student Handbook which is revised annually and provided to every student.

ACADEMIC INFORMATION

Accreditation
Covenant College was elected a member of the Southern Association of Colleges and Schools on December 1, 1971.
Admission

A student is admitted to Covenant College by certificate from his secondary school, by transfer, or, in special cases, by examination. The Admissions Committee, 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. Applicants who have not themselves made a profession of faith in Christ but who are children of a believing parent or parents will also be considered for admission.

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.

Application for Admission. Application for admission must be made on the official form obtainable from the Director of Admissions. A fee of fifteen 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 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:

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<td>English</td>
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<tr>
<td>Mathematics (algebra, trigonometry, geometry)</td>
<td>2</td>
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<tr>
<td>One foreign language</td>
<td>2</td>
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<tr>
<td>History and social studies</td>
<td>2</td>
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<tr>
<td>Natural science</td>
<td>2</td>
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<tr>
<td>Electives</td>
<td>4 or 3</td>
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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 Admissions Committee is willing to consider the applications of students whose preparation may vary from the usual pattern. For instance, students may be admitted if they have equivalent education representing a normal four-year course of study, provided they present above average marks and national test scores.

Honorably discharged military personnel who attain a satisfactory score on the General Education Development Tests administered in the service may also be admitted. Students enrolled in college-level Advanced Placement Program courses in secondary school will be given college credit for courses in which they earn scores of 4 or 5 on the Advanced Placement Examinations.

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 or suspension in other institutions, provided there is ample evidence that a second academic opportunity is warranted.

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 more than nine units of credit will be granted for courses taken by correspondence.

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 on a limited basis 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. The Admissions Committee may also admit as special students for a single semester persons who have appealed their academic suspension status and desire one more opportunity to demonstrate their ability to do college work. Special students will not receive college credit unless their status is changed to regular standing. 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 may audit courses without tuition charge. 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 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 $15.00.

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 class work 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. A student may not withdraw from a course after the end of the fifth week without receiving an F for the course, except in cases of medical or other emergencies certified by the Registrar. No student will be allowed to change courses after the tenth day of classes 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 Dean of Students and process an official Withdrawal Clearance Form available in his office. For refunds see page 79.

Testing Program

During the orientation period in the fall all entering freshmen who wish to
bypass core courses in English, mathematics, Bible, or foreign language must take the Covenant College placement tests.

**Scholastic Standards**

One of the criteria for the granting of the Bachelor of Arts and the Bachelor of Music degrees is the satisfactory completion of required courses with a grade point average of 2.0 in all subjects.

**The Credit and Grading System.** A unit is the amount of credit given for attendance in class for a period of 50 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.
- **R** means REPEAT and removes the effect of the previous mark in the course.
- **INC** means INCOMPLETE and indicates that part of the required work for the semester has not been completed. An incomplete is given only in cases of medical or other emergencies certified by the Registrar. Any course work not completed within the semester for reasons other than certified medical or other emergencies will be considered as F and included by the instructor in the computation of the final mark.

For Independent Study courses the grades assigned are **H** (four grade points), **P** (two grade points), or **F** (no grade point).

**Pass-Fail Option.** Students with junior or senior standing and a cumulative grade point average of 2.70 or higher may take a total of twelve units toward graduation on a pass-fail basis in non-core courses and courses outside the departments of the student’s major and minor. Students may not change from pass-fail to regular credit or from regular credit to pass-fail after the tenth day of classes in any semester. Units so earned carry credit for graduation but are not considered in computing the student’s grade point average. The objective of the pass-fail option is to encourage students to take some courses they might not otherwise take.

For Education 422/424: Teaching Practicum the following marking system is used:

- **S**—Satisfactory, **U**—Unsatisfactory (no credit and no repeating), **I**—Incomplete (to be removed upon successful completion of an additional period of student teaching).

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 and Suspension. 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. When a student's cumulative grade-point average is below certain levels set by the faculty for the various classes, indicating that his ability to graduate is in jeopardy, he will be suspended with the right to appeal through the Registrar. 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 the 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 semester units with a grade-point average of 1.5.

JUNIORS must have at least 58 semester units with a grade-point average of 1.8.

SENIORS must have at least 90 semester units with a grade-point average of 2.0.

Scholastic Honors. The Dean's List, which is announced at the close of each semester, contains the names of all students who have taken 12 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.

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 35 units in upper-division courses.
5. Compliance with all requirements in the major field, or major and minor fields.
6. No grades below C in the major and the minor.
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.

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:

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>31-32. Foundations of Modern Culture</td>
<td>8</td>
</tr>
<tr>
<td>81-82. Christian Doctrine</td>
<td>6</td>
</tr>
<tr>
<td>91-92. Philosophy of Christian Faith</td>
<td>4</td>
</tr>
<tr>
<td>51-52. Physical Education and 55. First Aid</td>
<td></td>
</tr>
<tr>
<td>and Health</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>20</strong></td>
</tr>
</tbody>
</table>

Other core courses may be by-passed through testing for advanced placement as certified by the Registrar and the appropriate department:

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition or Speech</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics or Logic</td>
<td>3</td>
</tr>
<tr>
<td>Old Testament and New Testament</td>
<td>6</td>
</tr>
<tr>
<td>Foreign language sequence</td>
<td>up to 14 hours</td>
</tr>
<tr>
<td></td>
<td>up to 26 hours</td>
</tr>
</tbody>
</table>
Options for fulfilling the core foreign language requirement:

a) foreign language sequence up to 14 hours (intermediate level);

b) an English language sequence of four courses including one or two of the following courses: 1) Linguistics, 2) Philosophy and Language, 3) The English Language, and two or three courses of translated literature, one of which will usually be in the Classics;

c) one year each of two elementary-level foreign languages;

d) one year of elementary foreign language and two courses in linguistics and/or literature in translation. Departmental requirements should be checked as different major programs may call for various language requirements.

Distribution requirements:

I. The Natural Creation: Laboratory Science 
   - 8

II. Man in Society: Social Science—psychology, social science and/or history
   - any 3

III. The Meaning of Life: God and the Humanities—history, philosophy, Bible and/or literature
   - any 3

IV. Creative Man: The Arts—art (non-professional), literature and/or music
   - any 3

   Total
   - 17

   Grand Total
   - 37 to 63

(History courses cannot be used to fulfill the distribution requirement in both II and III; courses in literature cannot be used to fulfill the distribution requirement in both III and IV. Courses in the major or minor used for core or distribution requirements cannot also be used for credit in the major or minor.)

Major-Minor Program. This program involves a major of at least 24 hours and a minor of at least 12 hours, for a total of at least 36 hours of courses approved by the departments named as the major and minor subjects. A student must take at least 12 units of his major at Covenant College and at least 6 units of his minor. As an option, a student can concentrate entirely in a single major without any minor, but this major shall then include at least 36 hours. The resulting total number of hours comes to 73-99, leaving the possibility of 27-53 hours of electives to achieve the 126 hours required for graduation.

Freshman:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition or Speech</td>
<td>3</td>
</tr>
<tr>
<td>Logic or Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>Foundations of Modern Culture</td>
<td>4</td>
</tr>
<tr>
<td>Bible</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education</td>
<td>½</td>
</tr>
<tr>
<td>Distribution courses and/or Electives</td>
<td>6</td>
</tr>
<tr>
<td>16½</td>
<td>16½</td>
</tr>
</tbody>
</table>
Sophomore:

- Christian Doctrine: 3
- Foreign Language: 4
- First Aid: 1
- Distribution Courses and/or Electives: 9

Junior:

- Philosophy of the Christian Faith: 2
- Foreign Language: 3
- Major and Minor Course Requirements and Electives: 12

Senior:

- Philosophy of the Christian Faith: 2
- Major and Minor Course Requirements and Electives: 13

A student electing foreign language as a freshman would probably delay science until his sophomore or junior year. A student planning concentration in mathematics, physics, or chemistry, will register for Mathematics 145-146 as a freshman.

A student planning a music major will register for Applied Music as a freshman.

Majors in natural sciences and in the music programs, 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.

**Major Programs**

- Applied Music
- Bible and Missions
- Biology
- Chemistry
- English
- History
- Inter-Disciplinary Studies
- Music
- Music Education
- Natural Science (with concentrations in biology, chemistry, mathematics, medical technology, and physics)
- Philosophy
- Psychology

**Minor Programs**

- Art
- Bible
- Biology
- Chemistry
- Education
- English
History
Mathematics
Missions
Music
Philosophy
Physical Education
Physics
Psychology
Sociology

Special Curricula for Pre-Professional Programs

Medical Technology
Nursing Education
Pre-Engineering (see Dual Degree Program under Natural Science)
Pre-Law (consult with the Registrar)
Pre-Medicine (consult with Dr. Lothers)
Pre-Ministerial
Teacher Education

Summer Session

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 and of Covenant College students on academic probation. A maximum of six hours’ credit may be earned during the summer session.

Off-campus Studies

Special arrangements have been made to enable Covenant College students to earn credit while studying off-campus in connection with l’Abri Fellowship in Switzerland and in the American Institute of Holy Land Studies on Mount Zion, Jerusalem, Israel. Up to 12 semester hours may be earned with l’Abri and up to 16 semester hours (24 quarter hours) in the Holy Land. Ordinarily only juniors or second semester sophomores may apply, and certain qualifications must be met. Students may also receive up to three units of credit for work done in connection with a variety of summer-service programs sponsored by Christian Training, Inc., and World Presbyterian Missions. Details of each program, which vary, may be obtained from the Registrar. Application should be made well in advance of the term to be spent off campus.
Independent Study

When possible, independent study will be arranged for students with a cumulative grade point average of 3.00 or above who are approved for such study by their department chairman. Ordinarily such study will be in a student's major field and will involve a subject not otherwise offered at Covenant College. The student is expected to submit to the supervising faculty member an outline and a bibliography for the program he wishes to study. Further details may be obtained from the Registrar. Course numbers 399 and 400 are designated for independent study.

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 core courses, which are designated by two-digit numbers.

Courses numbered in the 100s are open to freshmen, those in the 200s 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 300s and 400s) 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 in any given semester will be issued prior to registration. Brackets [ ] enclosing 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.
ART

REQUIREMENTS FOR MINOR IN ART

Art 111, 301, 302, plus 3 other units in art.

COURSES IN ART

111. INTRODUCTION TO ART
   Lecture and studio course designed to develop art knowledge and judgment through
   studies of historic and contemporary examples of painting, sculpture, architecture, in¬
   dustrial and commercial design, and crafts. One hour lecture. Four hours studio. Three
   units. Mr. Kellogg.

201. DRAWING
   Studio course in basic drawing including experimentation with a variety of media.
   Four hours studio. Two units. Mr. Kellogg.

[202. WATERCOLOR PAINTING]
   Studio course in basic watercolor painting. Four hours studio. Two units. Mr. Kel¬
   logg. (Not offered 1973-74.)

203. PRINTMAKING I
   Fundamental course in the basic relief printing processes involving studio work in
   linocut, woodcut, and object prints. Four hours studio. Two units. Mr. Kellogg.

[204. PRINTMAKING II]
   Fundamental course in the art of serigraphy. Four hours studio. Two units. Mr. Kel¬
   logg. (Not offered 1973-74.)

[301. ART HISTORY I]
   Illustrated study of painting, sculpture, and architecture from prehistoric times to
   the Italian Renaissance. (Offered alternate years, first semester.) Three units. Mr. Kel¬
   logg. (Not offered 1973-74.)

[302. ART HISTORY II]
   Illustrated study of painting, sculpture, and architecture from the Italian Renaissance
   to the present day. (Offered alternate years, second semester.) Three units. Mr. Kellogg.
   (Not offered 1973-74.)

303. OIL PAINTING I
   A studio course designed as an introduction to the oil painting medium. Prerequisite
   for Oil Painting II. Six hours studio. Three units. Mr. Kellogg.

304. OIL PAINTING II
   A studio course with emphasis on composition in landscape, still life, and figure paint¬
   ing. Prerequisite: Oil Painting I. Six hours studio. Three units. Mr. Kellogg.

394. ART FOR CHILDREN AND ADOLESCENTS
   Essential techniques, methods, and materials in classroom organization and the oper¬
   tional phases of an art program. A study of the elements of design and the organization
   of the basic elements. Required for elementary certification. Three units.
REQUIREMENTS FOR MAJOR IN BIBLE AND MISSIONS, CONCENTRATION IN BIBLE

In addition to the general requirements for graduation (see page 14), the following are required for a Bible and Missions major with a concentration in Bible:

- Bible “book study courses”: 12 units
- Bible Seminar: 4 units
- Missions: 3 units
- Any two other courses in Bible or missions (non-core): 6 units
- Total: 25 units

Some credit may be earned off campus by qualified students in connection with l’Abri Fellowship in Switzerland or the American Institute of Holy Land Studies in Israel. See the Department Chairman or Registrar for details.

Students following a single major in Bible and Missions (no minor) will also take the following requirements from other disciplines:

- History 311-312: History of Christianity: 6 units
- Philosophy: 3 units
- Psychology: 3 units

Greek is strongly recommended for a Bible and Missions major, and the twelve units from other disciplines listed above are recommended for students following a major-minor program.

REQUIREMENTS FOR MINOR IN BIBLE

- Book study courses: 6 units
- Other Bible and missions offerings (non-core): 6 units
- Total: 12 units

COURSES IN BIBLE

41. PENTATEUCH AND HISTORICAL BOOKS
   A comprehensive study of the Pentateuch and the historical books of the Old Testament, 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. Three units. Mr. Clark.

42. PROPHETS OF ISRAEL
   A comprehensive study of the Old Testament books of prophecy with special attention given to the nature and task of the prophetic office and its place in and effect upon redemptive history. Open to students who show a good grasp of Old Testament history. Mr. Gilchrist.
45. GOSPELS AND ACTS

46. EPISTLES
A comprehensive study of the New Testament Epistles, both Pauline and General, with special attention to the content and backgrounds of each. Doctrines will be discussed as the context is developed. Open to students who have a grasp of the Gospels and Acts. Three units. Mr. Clark.

81-82. 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. Young, Mr. Anderson, and Mr. Clark.

301. POETRY AND WISDOM LITERATURE
A comprehensive study of the Old Testament poetical books and wisdom literature, with emphasis on content. Matters of introduction as well as application to our present world situation will be considered. Three units. Mr. Gilchrist.

302. DANIEL AND REVELATION
A detailed study of the apocalyptic literature of the Bible, with comparisons to the same type of literature produced during the intertestamental period, including the Dead Sea scrolls, and an examination of various interpretations as developed in recent years. Three units.

[303. DEUTERONOMY]
A thorough study of the book comparing its background and form in the light of ancient international treaties, and showing how comprehensively it reveals the sovereign Lordship of God over his people in ancient times, with application to our own 20th century situation. The book of Deuteronomy is considered to be most important for a complete understanding of the rest of the Old Testament. Three units. Mr. Gilchrist. (Not offered 1973-74.)

[304. 1 CORINTHIANS]
A comprehensive study of 1 Corinthians with special emphasis on Paul’s approach to ethical problems arising in a Hellenistic congregation. Three units. Mr. Anderson. (Not offered 1973-74.)

305. 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.

306. EPHESIANS AND COLOSSIANS
Special emphasis will be placed on developing skills in Bible study methods as well as on the authenticity, authorship, and content of the two epistles. Three units. Mr. Anderson.

307. CHRISTIAN ETHICS
A concentrated study of Biblical ethics in context with special emphasis on the Decalogue and the doctrine of sanctification. Three units.
308. CHRISTIAN APOLOGETICS
   A survey of various systems of Christian apologetics including study of anti-theistic theories. Three units.

[309. PASTORAL EPISTLES]
   An exegetical and practical study of I and II Timothy and Titus designed for students who wish to understand the various offices in the church as they relate to our contemporary society and culture. Study papers will be assigned for presentation and discussion. Ordained members of the faculty will be called upon to share their insights and experiences. Three units. Mr. Gilchrist. (Not offered 1973-74.)

311. INTRODUCTION TO PALESTINIAN ARCHEOLOGY
   (See Catalogue of the American Institute of Holy Land Studies.)

321. THE BIBLICAL AND THEOLOGICAL SIGNIFICANCE OF MODERN ISRAEL
   (See Catalogue of the American Institute of Holy Land Studies.)

331. HEBREW LANGUAGE COURSE
   (See Catalogue of the American Institute of Holy Land Studies.)

341. PENTATEUCH AND HISTORICAL BOOKS
342. PROPHETS OF ISRAEL
345. GOSPELS AND ACTS
346. EPISTLES
   The same courses as 41, 42, 45, and 46 described above, but designed for upper-division students who wish to take them as electives. Extra reading assignments will be given.

347. EARLY MAN IN THE MIDDLE EAST
   (See Catalogue of the American Institute of Holy Land Studies.)

348. THE IRON AGE IN PALESTINE
   (See Catalogue of the American Institute of Holy Land Studies.)

349. THE GREECO-ROMAN PERIOD IN PALESTINE
   (See Catalogue of the American Institute of Holy Land Studies.)

351. PHYSICAL GEOGRAPHY OF PALESTINE
   (See Catalogue of the American Institute of Holy Land Studies.)

352. HISTORICAL GEOGRAPHY OF PALESTINE IN ANCIENT TIMES
   (See Catalogue of the American Institute of Holy Land Studies.)

357. SEMINAR ON MIDDLE EASTERN HISTORY, GEOGRAPHY, AND PROBLEMS
   (See Catalogue of the American Institute of Holy Land Studies.)

401. GENESIS
   An analysis of the book, with special reference to the Mesopotamian backgrounds of the patriarchs of Israel, the critical problems regarding origins, as well as the matters of authorship, date, and purpose. Three units.

[402. ISAIAH]
   A study of the prophecy of Isaiah against its historical background with special consideration of the Messianic prophecies. Three units. Mr. Gilchrist. (Not offered 1973-74.)
405. 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.

[406. HEBREWS]
An analysis of the book as a whole, and a consideration of its theological teaching in relation to the fulfillment of Old Testament types. Three units. (Not offered 1973-74.)

[407. SEMINAR ON CALVIN'S INSTITUTES]
A study of the theology of John Calvin as presented in his Institutes of the Christian Religion. Three units. Mr. Clark. (Not offered 1973-74.)

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

BIOLOGY

REQUIREMENTS FOR MAJOR IN BIOLOGY
At least 23 hours beyond Biology 111-112, including 218, 313, 411, and a minimum of three other biology courses chosen after consultation with adviser; Chemistry 121-122 and 323-324; and Physics 131-132. Mathematics 145-146 and intermediate level French or German are required for those planning to go to graduate school.

The biology major calls for early and extensive counseling of students in order that they be properly informed of the requirements and aims of the program. A student entering this program 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. The following is a suggested four-year schedule for the biology major:

<table>
<thead>
<tr>
<th>Freshman</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 111-112</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry 121-122</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>O.T. and N.T.</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>English Composition or Speech</td>
<td>3</td>
<td>—</td>
</tr>
<tr>
<td>Mathematics 142</td>
<td>—</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education</td>
<td>$rac{1}{2}$</td>
<td>$rac{1}{2}$</td>
</tr>
<tr>
<td>Foundations of Modern Culture</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>18½</td>
<td>18½</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sophomore</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 145-146</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Doctrine</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Biology</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
<td>—</td>
</tr>
<tr>
<td>German or French</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>16</td>
<td>15</td>
</tr>
</tbody>
</table>

24
REQUIREMENTS FOR MINOR IN BIOLOGY

For those fulfilling the natural-science distribution requirement with Natural Science 103-104, General Chemistry, or General Physics:

General Biology plus 8 other hours in biology, 200-level or above

For those fulfilling the natural-science distribution requirement with General Biology:

12 other hours in biology, 200-level or above.

REQUIREMENTS FOR MAJOR IN NATURAL SCIENCE—CONCENTRATION IN BIOLOGY

See under Natural Science.

REQUIREMENTS FOR GEORGIA SECONDARY SCHOOL CERTIFICATION

See Requirements for Major in Natural Science—Concentration in Biology

COURSES IN BIOLOGY

104. EVOLUTION AND BIOLOGICAL ADAPTATIONS

See Natural Science 104.

111-112. GENERAL BIOLOGY

Basic principles of biology at molecular, cellular, organ system, organismic, and community levels. Three hours lecture. Three hours laboratory. Laboratory fee: $15.00 per semester. Eight units. Staff.

217. HUMAN PHYSIOLOGY

The functioning of the major systems of the body will be studied along with a sufficient background of anatomical concepts. Prerequisite: Biology 111-112. Three hours lecture. Three hours laboratory. Laboratory fee: $10.00. Four units. Mr. Wenger.

[218. ECOLOGY]

Relations of organisms to the physical and biological conditions under which they live. Two hours lecture. Four hours laboratory. Prerequisite: Biology 111-112 or equivalent. Laboratory fee: $10.00. Four units. Mr. Wenger. (Not offered 1973-74.)
302. **BACTERIOLOGY**
Life histories, morphology, physiology, identification, culture techniques, and immunity. Prerequisite: Biology 111-112 or equivalent. Three hours lecture. Three hours laboratory. Laboratory fee: $10.00. Four units. Mr. Lothers.

[311. **COMPARATIVE ANATOMY**]
Classification and comparison of typical chordate animals with emphasis on the vertebrates. Prerequisite: Biology 111-112 or equivalent. Two hours lecture. Six hours laboratory. Laboratory fee: $15.00. Five units. (Offered on demand.)

312. **COMPARATIVE ANIMAL PHYSIOLOGY**
A comparative study of functions of animal organ systems. Prerequisite: Biology 111-112 or equivalent. Three hours lecture. Three hours laboratory. Laboratory fee: $15.00. Four units. Mr. Wenger.

[313. **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 mechanics of heredity. Prerequisite: Biology 111-112 or equivalent. Three hours lecture. Two hours laboratory. Laboratory fee: $10.00. Mr. Lothers. (Not offered 1973-74.)

314. **EMBRYOLOGY**
Development of vertebrate animals. Prerequisite: Biology 111-112 or equivalent. Three hours lecture. Three hours laboratory. Laboratory fee: $10.00. Four units. Mr. Lothers.

[316. **PLANT PHYSIOLOGY**]
Functions associated with plant maintenance, growth, and reproduction. Prerequisite: Biology 111-112 or equivalent. Three hours lecture. Three hours laboratory. Laboratory fee: $10.00. Four units. Mr. Wenger. (Not offered 1973-74.)

317. **ANIMAL HISTOLOGY AND MICROTECHNIQUE**
Tissues and organs of vertebrates. Training in the preparation and interpretation of animal tissues for microscopical study. Prerequisite: Biology 111-112 or equivalent. Two hours lecture. Four hours laboratory. Laboratory fee: $10.00. Four units. Mr. Lothers. (Not offered 1973-74.)

411. **CURRENT CONCEPTS IN BIOLOGY**
Historic development of current concepts with emphasis on the theory of evolution. Reports and discussions of the current literature. Coverage of areas in which the students may be weak, such as various biochemical topics and experimental design. Prerequisite: Eight hours of 200 or 300 courses, preferably including Genetics. Three hours lecture. Three units. Mr. Lothers.

414 (214). **MACROEVOLUTION AND MICROEVOLUTION**
Same topics as Natural Science 104 plus additional topics suited to the class. Discussion groups consisting of students from Natural Science 104 may be led at least once during the semester. Those electing 414 will give one oral report. Students desiring to fulfill the science distribution requirements with a more challenging course than 104 may take 214 plus lab from 104. Three units (four units with lab). Mr. Lothers.

416. **DIRECTED STUDIES IN BIOLOGY**
Methods in biological research, familiarity with the biological literature, experience
in choosing and carrying out an experiment. Prerequisite: Eight hours of 200 or 300 courses. Up to three units credit, but no more than two units in one semester. Mr. Wenger, Mr. Lothers. (Offered on demand.)

CHEMISTRY

REQUIREMENTS FOR MAJOR IN CHEMISTRY

At least 24 hours beyond Chemistry 121-122, including 323-324, 325-326, and 425-426; Physics 131-132 and 333; Mathematics through 247. German is recommended for those planning to go to graduate school. Biology 111-112 is recommended for those interested in graduate work in biological or physiological chemistry.

Entering freshmen who plan to major in chemistry should plan to take calculus the first year. It is recommended, therefore, that they present mathematics through trigonometry from high school.

The chemistry major calls for early and extensive counseling of students in order that they be properly informed of the requirements and aims of the program. A student entering this program will ordinarily have to make his decisions earlier in his college career than is necessary for some of the other programs offered by the college.

The following is a suggested four-year schedule for the chemistry major:

<table>
<thead>
<tr>
<th>Freshman</th>
<th>Fall</th>
<th>Spring</th>
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</thead>
<tbody>
<tr>
<td>Chemistry 121-122</td>
<td>4</td>
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<tr>
<td>O.T. and N.T.</td>
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<tr>
<td>Mathematics 145-146</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>English Composition or Speech</td>
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<tr>
<td>Distribution Requirement</td>
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<tr>
<td>Physical Education</td>
<td>½</td>
<td>½</td>
</tr>
<tr>
<td>Foundations of Modern Culture</td>
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<thead>
<tr>
<th>Sophomore</th>
<th>Fall</th>
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</tr>
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<tbody>
<tr>
<td>Chemistry 323-324</td>
<td>4</td>
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<tr>
<td>Mathematics 247</td>
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</tr>
<tr>
<td>Physics 131-132</td>
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<tr>
<td>German</td>
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<tr>
<td>Physical Education</td>
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<td>-</td>
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<tr>
<td>Distribution Requirements</td>
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17 18

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<thead>
<tr>
<th>Junior</th>
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<tbody>
<tr>
<td>Chemistry 325-326</td>
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<tr>
<td>German</td>
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<td>3</td>
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<td>Doctrine</td>
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<tr>
<td>Physics 333</td>
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<tr>
<td>Courses in Minor</td>
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<tr>
<td>Philosophy of the Christian Faith</td>
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16 15

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<thead>
<tr>
<th>Senior</th>
<th>Fall</th>
<th>Spring</th>
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</thead>
<tbody>
<tr>
<td>Chemistry 425-426</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Philosophy of the Christian Faith</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>Courses in Minor</td>
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<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
<td>6</td>
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REQUIREMENTS FOR MINOR IN CHEMISTRY

For those fulfilling the natural-science distribution requirement with Natural Science 103-104, General Biology, or General Physics:

General Chemistry plus 8 other hours in chemistry.

For those fulfilling the natural-science distribution requirement with General Chemistry:

12 other hours in chemistry.

In either case, a chemistry minor must include Chemistry 323-324.

REQUIREMENTS FOR MAJOR IN NATURAL SCIENCE—CONCENTRATION IN CHEMISTRY

See under Natural Science.

REQUIREMENTS FOR GEORGIA SECONDARY SCHOOL CERTIFICATION

See Requirements for Major in Natural Science—Concentration in Chemistry.

DUAL DEGREE PROGRAM WITH GEORGIA INSTITUTE OF TECHNOLOGY

See under Natural Science.

COURSES IN CHEMISTRY

121-122. GENERAL CHEMISTRY

An introduction to the science of chemistry with special emphasis on fundamental chemical principles and their applications. Basic organic chemistry is covered during the second semester. Qualitative analytical procedures are included in the laboratory second semester. Two hours lecture. One hour recitation. Three hours laboratory. Laboratory fee: $15.00 per semester. Refundable breakage deposit: $10.00. Eight units. Staff.

323-324. 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 121-122. Three hours lecture. Three hours laboratory. Laboratory fee: $15.00 per semester. Refundable breakage deposit: $10.00. Eight units. Mr. Donaldson.

325-326. 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 121-122. Two hours lecture. Six hours
laboratory. Laboratory fee: $15.00 per semester. Refundable breakage deposit: $10.00. Eight units. (Offered in alternate years.) Mr. Dameron.

422. 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 323-324. Two hours lecture. Six hours laboratory. Laboratory fee: $15.00. Refundable breakage deposit: $10.00. Four units. Mr. Donaldson. (Offered on demand.)

423. BIOCHEMISTRY
The study of the chemistry of living organisms and life processes, including the chemistry of fats, carbohydrates, proteins, vitamins, and hormones. Prerequisite: Chemistry 323-324. Three hours lecture. Three hours laboratory in alternate weeks. Laboratory fee: $15.00. Refundable breakage deposit: $10.00. Four units. (Offered on demand.)

[425-426. PHYSICAL CHEMISTRY]
A study of the gaseous, liquid, and solid states, solutions, elementary thermodynamics, chemical equilibria, electrochemistry, chemical kinetics and quantum mechanics. Prerequisite: Chemistry 325-326, Physics 131-132, Mathematics 145-146, or consent of instructor. Three hours lecture. Three hours laboratory. Laboratory fee: $15.00 per semester. Refundable breakage deposit: $10.00. Eight units. (Not offered 1973-74.)

EDUCATION

REQUIREMENTS FOR NON-TEACHING MINOR IN EDUCATION
Persons selecting education as a minor but not desiring to teach must complete twelve units in education including 221, 222, and 321.

REQUIREMENTS FOR TEACHING MINOR IN EDUCATION
See Teacher Education Program.

COURSES IN EDUCATION

21(E). TEACHING AND THE FUNDAMENTALS OF MATHEMATICS
See Mathematics 21(E). Required for elementary certification.

221. PRINCIPLES OF TEACHING AND LEARNING
After an initial acquaintance with the current scene in education, scriptural principles are studied to provide a basis for decision-making in education. These principles guide the study of the organization and curriculum of the school, the roles of teachers and students, professional relationships, and the control of the school. This course also provides content and experiences related to philosophical and sociological foundations of education. Pre-practicum experiences include tutoring individual students or small groups, observing classes, working with a classroom teacher, and/or visiting various kinds
of schools. The course provides foundational knowledge for those who know they want to teach. Its content and experiences prove helpful to those just exploring the possibility of a career in education. Three units. Mrs. Steensma.

222. EDUCATIONAL PSYCHOLOGY
Theories of learning and teaching, the formation of concepts, and major concepts in the discipline are studied with a Christian perspective. The concepts offered by Piaget, Bruner, Ausubel, Gagne, Stimulus-Response Theory, and Cognitive Theories form key content. Pre-practicum experiences include those in Education 221. More emphasis is placed on relating course content to the pre-practicum experience. There is a conscious attempt to use learning and instructional theory in classroom experiences. Three units. Mrs. Steensma.

235. PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL
See Physical Education 235. Required for elementary certification.

321. STRUCTURE OF KNOWLEDGE (CURRICULUM THEORY)
An introduction to epistemology in preparation for an analysis of each academic discipline to determine what is known, the manner of inquiry, and the relationship to every other discipline. A Christian world-and-life view is key to the content. Students selecting either elementary or secondary levels profit by sharing this content. They develop an understanding of the conceptual structure of the discipline and the contributions other disciplines offer to theirs. The aim is to view reality as an integrated whole rather than a collection of parts. Prerequisite: either 221 or 222. Three units. Mrs. Steensma.

322/324. DESIGNING TEACHING/LEARNING MODELS
The content is shared by all students regardless of interest, elementary (322) or secondary (324) levels. Students register by number for certification purposes. The study of teaching strategies leads to the development of teaching units related to the student’s discipline, the educational level for which he is registered, and for use during the teaching practicum experience. Students become involved with multi-media hardware and software as it pertains to their teaching area. The pre-practicum experience includes observation of and involvement with the cooperating classroom teacher with whom he will practice teach during the final eight weeks of the semester. Prerequisite: 221, 222, and 321. Three units. Mr. Fennema.

326. FUNDAMENTALS OF READING
See English 326. Required for elementary certification.

352. MUSIC IN THE ELEMENTARY SCHOOL
See Music 352. Required for elementary certification.

366. LITERATURE FOR CHILDREN AND ADOLESCENTS
See English 366. Required for elementary certification.

394. ART FOR CHILDREN AND ADOLESCENTS
See Art 394. Required for elementary certification.

422/424. TEACHING PRACTICUM
The final eight weeks of the professional semester are spent in an actual teaching experience on a full-day basis. No other college course work is allowed during this period. Seminars are conducted with the college supervisor. Prerequisite: 322 or 324. Eight units. Mr. Fennema.
ENGLISH

REQUIREMENTS FOR MAJOR IN ENGLISH
In addition to the general requirements for graduation (see page 14), the following are required for an English major:

- English courses, 200-level or above 24 units
  - English 201 or 202 3 units
  - English 215, 260, 272, or 273 3 units
  - English 310, 317, 322, or 333 3 units
  - English 334, 341, or 352 3 units
  - English 406, 418, or 423 3 units
  - English 203, 366, 367, or 425 3 units

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 courses in the fields of history and philosophy.

REQUIREMENTS FOR MINOR IN ENGLISH
Any 12 hours in English, 200-level or above.

REQUIREMENTS FOR GEORGIA SECONDARY SCHOOL CERTIFICATION
1. Normal requirements for an English major including 203 and/or 367.
2. In addition, a minimum of one course in each of the following areas: (a) composition, (b) reading, (c) speech.
3. A teaching minor in education (see Teacher Education Program).
4. A minimum of three units of mathematics.

COURSES IN ENGLISH

Courses in Writing and Speech

11. ENGLISH COMPOSITION
The emphasis in this course is on learning to write expository prose effectively and purposefully. There will be experience in building a fund of ideas, in organizing thought,
in analyzing and evaluating one's writing, and in sharing it. The basic tools for research will be taught as a Christian encounter with some current problem or a particular topic the student should desire to explore.

Students enrolling in this course should bring many samples of their high school writing for use as specific, personal material in analyzing and improving writing style. Three units. Mr. Hesselink and staff.

12. 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. Miss Vander Ark.

[302. ADVANCED WRITING]
A course in various forms of non-expository composition. Prerequisite: Exemption from English Composition, or English Composition with a grade of B or higher, and special permission of the instructor. Two units. (Not offered 1973-74.)

Course in Reading
326. FUNDAMENTALS OF READING
This course includes a general survey of approaches to reading and a study of some critical analyses of these approaches. Students will be involved in local schools in pre-practicum experiences. Required for elementary certification. May be taken for credit in either English or education. Three units. Mrs. Steensma.

Special Course
100. SPEED READING
A highly concentrated course designed to increase speed and comprehension in reading. Open to all students. Ten weeks. Special tuition fees. (Offered upon sufficient demand.)

Courses in Language and Literature
102. THE ENJOYMENT OF POETRY
A study aimed to discover and demonstrate what happens in poetry to make reading it a pleasure. A basic course for English majors but not restricted to such. Three units.

[112. LITERATURE AND CONTEMPORARY PROBLEMS]
A study of a body of literature and its relationships to a current problem (for example, literature by and about black Americans; the novels of C. P. Snow and modern academic life; Charles Williams, C. S. Lewis, and J. R. R. Tolkien and the possibilities of modern Christian fiction). Three units. (Not offered 1973-74.)

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. Staff.

203. THE ENGLISH LANGUAGE
An introduction to the origin, the history, the characteristics, the uses, and the misuses of English as a vital language. Three units. Mr. Hesselink and Mr. Barker.

32
[210. THE CLASSICS IN ENGLISH TRANSLATION]
A study of selected literary classics from the period of Greek and Roman antiquity. Three units. Mr. Barker. (Not offered 1973-74.)

211. EUROPEAN LITERATURE IN ENGLISH TRANSLATION
The study of works from European literature since the classical era. The emphasis may be on a single major author (e.g., Dante, Cervantes, Goethe), on a national literature (French, Russian, etc.), on a particular form of literature (novel, romance, etc.), or on a particular idea (the image of man, concepts of culture, etc.). Three units.

215. ENGLISH AND AMERICAN DRAMA
A chronological study of English and American drama, exclusive of Shakespeare, with special attention to changes in the structure and the conventions of the theatre. Three units. Mr. Hesselink.

[260. THE ENGLISH NOVEL]
Critical studies of a limited number of works by the major writers of English fiction. Three units. Mr. Hesselink. (Not offered 1973-74.)

[272. AMERICAN POETRY]
A study of the principal American poets. Three units. (Not offered 1973-74.)

[273. THE AMERICAN NOVEL]
Critical reading of representative American novels from Cooper to the present. Three units. (Not offered 1973-74.)

310. THE MEDIEVAL LITERATURE OF ENGLAND
A study in translation of the medieval literature of England, exclusive of Chaucer. Three units.

[317. THE SIXTEENTH CENTURY]
A study of two or more of the important writers of works of the period, including Spenser. Three units. (Not offered 1973-74.)

[322. THE SEVENTEENTH CENTURY]
A study of two or more of the important writers or works of the period, exclusive of Milton (for example, Donne, Jonson, Herbert, Herrick, and Dryden; or The Anatomy of Melancholy, Religio Medici, and The Rule and Exercises of Holy Dying). Three units. (Not offered 1973-74.)

[333. THE EIGHTEENTH CENTURY]
A study of two or more of the important writers or works of the period (for example, Swift, Pope, Johnson, and Blake; or Boswell’s Life of Johnson and Sterne’s Tristam Shandy). Three units. Mr. Hesselink. (Not offered 1973-74.)

334. THE ROMANTIC MOVEMENT
A study of English Romantic writers from Blake to Keats. Three units. Mrs. Young.

[341. THE VICTORIAN ERA]
A study of major English writers from 1830 to the end of the century. Three units. (Not offered 1973-74.)
[352. TWENTIETH CENTURY LITERATURE]
A study of important works or writers in English and American literature from 1900 to the present. Three units. (Not offered 1973-74.)

[366. LITERATURE FOR CHILDREN AND ADOLESCENTS]
A course designed to explore the vast resources in children’s literature and to show appropriate ways for making literature a delight at any age. May be taken for credit in either English or education. Three units. Miss Vander Ark. (Not offered 1973-74.)

367. APPLIED ENGLISH STUDIES
A course especially designed for teachers of English in secondary schools. The content of language structure (grammar), the gathering and organizing of ideas (composition), approaches to literature, and attempts toward integrating these three major areas. May be taken for credit in either English or education. Three units. Miss Vander Ark.

399. 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 not fully covered in available courses. Credit to be determined in each case; maximum credit, three units per semester.

406. CHAUCER
A study of Chaucer’s art, with some attention to the social and literary backgrounds of his work. Three units. Mr. Barker.

418. SHAKESPEARE
A study of Shakespeare’s dramatic art. Three units.

[423. MILTON]
A study of Milton’s English poetry, with some attention also to his prose works. Three units. (Not offered 1973-74.)

[425. ENGLISH SEMINAR]
Study of and practice in the disciplines traditionally comprised in the field of English (including linguistics, rhetorical studies, textual scholarship, literary history, literary criticism, philology, and folklore), with attention to the methods of research appropriate to each. Three units. Mr. Barker. (Not offered 1973-74.)

FRENCH

CORE REQUIREMENT IN FOREIGN LANGUAGE
The options for fulfilling the foreign language requirement are indicated in the description of the core curriculum on page 16. The language requirements for specific major programs should be checked with the department involved.
All students who have already begun French in high school and who wish
to fulfill the foreign language requirement in French 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 French in high school, upon achieving at least a satisfactory score on the placement examination, will be placed in Intermediate French. Failure to make a satisfactory score will mean that the student must take Elementary French without credit or start another language.

Students with three or more years of French in high school, upon achieving a superior score, will be considered to have fulfilled the foreign language requirement of the college. They may begin another language if they so desire.

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

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

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 FRENCH

61-62. ELEMENTARY FRENCH

- Pronunciation, fundamentals of grammar, readings, conversation and composition. Eight units. Miss Boese.

63-64. INTERMEDIATE FRENCH

- Review of grammar and basic skills; selected readings in French. Six units. Miss Boese.
CORE REQUIREMENT IN FOREIGN LANGUAGE

The options for fulfilling the foreign language requirement are indicated in the description of the core curriculum on page 16. The language requirements for specific major programs should be checked with the department involved.

All students who have already begun German in high school and who wish to fulfill the foreign language requirement in German 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 German in high school, upon achieving at least a satisfactory score on the placement examination, will be placed in Intermediate German. Failure to make a satisfactory score will mean that the student must take Elementary German without credit or start another language.

Students with three or more years of German in high school, upon achieving a superior score, will be considered to have fulfilled the foreign language requirement of the college. They may begin another language if they so desire.

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

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

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 German from grades 3 to 12 equals 6 "years" of German.

COURSES IN GERMAN

71-72. ELEMENTARY GERMAN
Grammar, pronunciation, reading, and conversation. Eight units.

73-74. INTERMEDIATE GERMAN
Oral and written reproduction of self expression. Six units. Miss Boese.
GREEK

CORE REQUIREMENT IN FOREIGN LANGUAGE

The options for fulfilling the foreign language requirement are indicated in the description of the core curriculum on page 16. The language requirements for specific major programs should be checked with the department involved.

COURSES IN GREEK

75-76. ELEMENTARY GREEK
An introduction to the grammar and vocabulary of the Koine Greek. Eight units. Mr. Mawhinney.

77-78. INTERMEDIATE GREEK
Advanced grammatical analysis of New Testament Greek. Readings in Johannian literature in the fall semester and Synoptic readings in the spring semester. Six units. Mr. Mawhinney.

HISTORY

REQUIREMENTS FOR MAJOR IN HISTORY

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>History 202, 211-212, 300-301, 307</td>
<td>16 units</td>
</tr>
<tr>
<td>Any 5 other history courses (at least one seminar is recommended)</td>
<td>15 units</td>
</tr>
<tr>
<td></td>
<td>31 units</td>
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</table>

A major in history without a minor requires all of the above plus 9 units more of history.

REQUIREMENTS FOR MINOR IN HISTORY

History 202 and 212 plus 6 units of upper-division history courses.
REQUIREMENTS FOR GEORGIA SECONDARY SCHOOL CERTIFICATION

1. Normal requirements for a history major including work in the following areas: (a) ancient, (b) medieval, (c) modern, (d) United States, (e) historiography.
2. In addition, a minimum of three units in two of the following areas: (a) economics, (b) geography, (c) political science, (d) behavioral science—anthropology, psychology, or sociology.
3. A teaching minor in education (see Teacher Education Program).
4. A minimum of three units of mathematics.

COURSES IN HISTORY

202. EUROPE SINCE THE RENAISSANCE
An overview study focusing on the various cultural patterns and ideals which arose in western Europe since the Renaissance. The emphasis will fall on Italian Civic Humanism, the various streams of the Protestant and Catholic reform movements, European absolutism, Democracy, Socialism, and Fascism, and the structural forms of these movements. Open to freshmen. Three units. Mr. Voskuil.

[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. Three units. Mr. Fennema. (Not offered 1973-74.)

211, 212. HISTORY OF THE UNITED STATES
A synthesis of the political, social, cultural, and religious phases of American life. First semester to 1865; second semester since 1865. Open to freshmen. Three units each semester. Mr. Austin.

300, 301. HISTORIOGRAPHY AND RESEARCH
A course designed for history majors in their junior year. The student is exposed to the problems of historiography with special attention given to the Christian approach to and interpretation of history. The course includes familiarization with the tools and techniques of historical research and requires their application in the form of a written presentation. Required of history majors and interdisciplinary majors who select additional hours in history. Two units each semester. Mr. Austin and Mr. Voskuil.

[302. ENGLAND SINCE 1485]
A study of the formation of Anglicanism in its Tudor form, the struggle between the Stuarts and Parliament and the gradual secularization of Anglicanism in the in the eighteenth century. Victorian England is studied as a transition period to the twentieth century social democracy. The stress falls on constitutional, ecclesiastical, social and intellectual developments. Prerequisite: History 202 or permission of the instructor. Three units. Mr. Voskuil. (Not offered 1973-74.)

[303. ANCIENT GREECE AND ROME]
A study of Bronze Age Greece, the rise and formation of the Greek city-state, the impact of Alexander the Great, and the institutions of the Hellenistic world. Atten-
tion will then shift to Rome, to the rise and development of the Republic, the transition to Empire and its eventual disintegration. An attempt will be made to understand the character of classical humanism as it came to be expressed in the early Roman empire. Three units. Mr. Voskuil. (Not offered 1973-74.)

304. MEDIEVAL CIVILIZATION
The medieval world is studied as a civilization in its own right, having its own particular values and institutional structure. The course begins with the Germanic invasions of the western Roman empire and ends with the decline of the church in the fourteenth century. Attention will focus on the development of the concept of a united Christian society and the accompanying cultural differentiation. Three units. Mr. Voskuil.

306. EUROPE, 1400-1789
A topical study of European history. The emphasis will fall on trans-national developments such as secular humanism, church reform, state absolutism, the rise of science, Enlightenment rationalism, and the like. Prerequisite: History 202 or the permission of the instructor. Three units. Mr. Voskuil.

[307. EUROPE, 1789 TO THE PRESENT]
A continuation of the type of study outlined in History 306. Prerequisite: History 202 or permission of the instructor. Three units. Mr. Voskuil. (Not offered 1973-74.)

[308. MODERN RUSSIA]
A study of Russia since Peter the Great. Emphasis will be on the structural character and the ideals of Tsarist Russia, the growing revolutionary movement and the development of Marxist society. Conducted largely as a reading tutorial. Prerequisite: History 202 or permission of the instructor. Three units. Mr. Voskuil. Not offered 1973-74.)

309. MODERN GERMANY
A study of the major themes of German history since the Protestant Reformation. The study will focus largely on those aspects of German history which will help the student to understand Germany’s role in the twentieth century. Conducted largely as a reading tutorial. Prerequisite: History 202 or permission of the instructor. Three units. Mr. Voskuil.

[311,312. HISTORY OF CHRISTIANITY]
First semester, a detailed study of the Church from the first century to the Protestant Reformation with emphasis on the problems of Church and state; second semester, from the Protestant Reformation to the present with emphasis on the effect of the Christian society on contemporary life. Three units each semester. Mr. Austin. (Not offered 1973-74.)

313. COLONIAL AMERICA
A study of early American history with emphasis on the European settlement of North America, the social and cultural development of the American community, and the establishment of political independence at the time of the American Revolution. Prerequisite: History 211 or permission of the instructor. Three units. Mr. Austin.
314. U.S. DIPLOMATIC HISTORY
   A survey of America's rise to world power with special emphasis upon the development of foreign policy. Particular attention is devoted to U.S. foreign affairs in the twentieth century. Prerequisite: History 212 or permission of the instructor. Three units. Mr. Austin.

315. RECENT AMERICAN HISTORY]
   An in-depth study of twentieth century U.S. history with stress upon domestic problems and programs. Prerequisite: History 212 or permission of the instructor. Three units. Mr. Austin. (Not offered 1973-74.)

321. HISTORY OF AMERICAN PRESBYTERIANISM
   An historical analysis of the origins and development of American Presbyterianism with special attention paid to the events which led to the formation of such Reformed bodies as the Reformed Presbyterian Church, Evangelical Synod and the Orthodox Presbyterian Church. Three units. Mr. Austin.

400. INDEPENDENT STUDY
   Independent study in history may be pursued by qualified students in accordance with established guidelines. See this catalog, page 19.

401. STUDIES IN U.S. HISTORY
   Advanced studies in selected topics (e.g., the Federalist Era, Civil War, New Deal, etc.) in American history. This course is conducted as a seminar with a limited enrollment and consists of extensive reading accompanied by written and oral presentations by the student. The topic varies each year and the course may be taken more than once. Prerequisites: appropriate lower level courses in American history and permission of the instructor. Three units. Mr. Austin.

409. SEMINAR IN MODERN EUROPE
   Seminar on topics in European history, the emphasis of which will fall on the period since World War I. Prerequisite: History 202 and six hours of upper level history study. Three units. Mr. Voskuil. (Not offered 1973-74.)

411,412. AMERICAN SOCIAL AND INTELLECTUAL HISTORY
   These courses trace the development of American thought in religion, philosophy, education, social reform, political theory, and related fields with consideration given to social values and conduct. Prerequisite: History 211 and 212 or permission of the instructor. Three units each semester. Mr. Austin. (Not offered 1973-74.)

INTER-DISCIPLINARY STUDIES

REQUIREMENTS FOR MAJOR IN INTER-DISCIPLINARY STUDIES

A) Acceptance into the inter-disciplinary major.
   The student seeking a major in inter-disciplinary studies must make written
application to the inter-disciplinary committee. This application will include a clear statement of the student's goals and an explanation of how those goals will best be fulfilled by an inter-disciplinary major.

The student should understand both what an academic discipline is and what the advantages and disadvantages of pursuing an inter-disciplinary major are.

An academic discipline is a theoretical study that seeks to analyze a specific aspect of God's creation or of man's cultural response. It goes beyond merely introductory studies and is separate from those studies that are solely vocational in emphasis and from those that are simply tools to be used for analytical study.

For the student wishing to explore more disciplines than would normally be provided by selecting a major and a minor field, the inter-disciplinary major gives the option of broader coverage. This may give him a better basis for such careers as advertising, business, elementary education, law, or the ministry. At the same time, the inter-disciplinary major should not be viewed as an escape from choosing a major in a single academic discipline. The student should realize that, though the inter-disciplinary major seeks to provide some depth in each of three academic disciplines, it will not give him the same in-depth grasp of a discipline that choice of a major in a single field would.

The major in inter-disciplinary studies emphasizes studies in the humanities. For an inter-disciplinary approach to the sciences, see Major in Natural Science.

B) The core program, including distribution requirements.

C) A minimum of 12 hours, 200-level or above, in each of three of the following areas (for specific requirements in these areas, see below):

1) Bible and Missions
2) Education
3) English
4) History
5) Mathematics
6) Music
7) Philosophy
8) Psychology
9) Sociology

D) An additional 6 hours, 200-level or above, in one of the three areas selected.

E) Total units=42, of which at least 21 must be upper division.

A minimum of 21 units in the inter-disciplinary major must be earned at Covenant College. Twelve units of transfer credit may be granted in areas of study not currently taught at Covenant College but approved by the inter-disciplinary committee as appropriate for meeting requirements in the inter-disciplinary major.

Specific Requirements in Bible and Missions

One 3-hour course in a book study Bible Seminar
One missions course
One 3-hour course that deals with the relationship between the Christian faith and philosophy (i.e., the course in Apologetics or Philosophy of Religion).

Specific Requirements in Education

Required: Education 221, 222, and 321
Elective: Education 326, 366, or 394.
If 18 hours are in Education and the student is working toward a teaching certificate, he must take, in addition to the required courses: Education 322/324 and 422/424.
If 18 hours are in Education and the student is not working toward a teaching certificate, he must, in addition to the required courses, select at least 6 hours from: Education 326, 366, 394. The remaining 3 hours may be either Education 235 or 352.

Specific Requirements in English

English 201 or 202
English 272 or 273
English 310, 317, 322, 333, 334, 341, or 352
English 406, 418, or 423.
If the additional 6 hours are in English, either English 367 or 425 must be included.

Specific Requirements in History

History 202, 212, and any 6 hours, 300-level or above.
If 18 hours are in History: 300, 301, and one other 300-level course.

Specific Requirements in Mathematics

Required: Mathematics 247 and 341.
If 18 hours are in Mathematics: 247, 341-342, 343, 347, and 348.

Specific Requirements in Music

Courses in Music History, Literature, and Theory

Specific Requirements in Philosophy

Philosophy 200
Philosophy 201 or 202
One course in the history of philosophy
One elective course in philosophy.
If the additional 6 hours are in philosophy: one more course in the history of philosophy and one more course in philosophy.

Specific Requirements in Psychology

Prerequisite: Psychology 101
Required: 12 (or 18) hours beyond Psychology 101.
Specific Requirements in Sociology

Sociology 141
Sociology 241, 243, or 345
Sociology 244, 342, or 344
Sociology 341 or 343.

If the additional 6 hours are in sociology: two other courses from the above list, chosen from different groups.

COURSES IN INTERDISCIPLINARY STUDIES

31-32. FOUNDATIONS OF MODERN CULTURE

A survey of Christian principles which provide a perspective for evaluating culture. The class will study those great ideas which are influencing life today. The areas primarily to be considered are philosophy and theology, science, history and social sciences, psychology, and the arts. Required of freshmen. Four units, each semester. Mr. Sanderson, Mr. Young, Mr. Barker, Mr. Donaldson, Mr. Graham, Mr. Voskuil.

91-92. 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 students will be expected either to prepare a written thesis or project, which will provide an opportunity to explore and analyze a problem from the student’s major field, in the light of Christian philosophy, or to engage in discussions on topics derived from a select list of readings in the history of thought significant for Christianity. Two units each semester. Mr. Anderson.

271. HISTORY AND CULTURE OF BLACK AMERICANS

The black man in America, his history, his cultural accomplishments, and the social problems that have accompanied him. Enrollment open to freshmen with permission. Three units.

[281. ENVIRONMENTAL STUDIES]


[291. THE SPIRIT AND SUBSTANCE OF ART]

A discussion of the aesthetic aspect of creation, the motives which make for artistic creativity, the criteria by which aesthetic judgments are made. Selections from major thinkers will be read and discussed. Art objects will be examined and evaluated. Three units. (Not offered 1973-74.)

[391. OLD TESTAMENT VIEW OF LIFE]

An examination of the main themes of Job, certain Psalms, Proverbs, Ecclesiastes, and Lamentations. Permission of instructor required. Three units. Mr. Sanderson. (Not offered 1973-74.)
MATHEMATICS

REQUIREMENTS FOR MAJOR IN NATURAL SCIENCE—CONCENTRATION IN MATHEMATICS OR PHYSICS

See under Natural Science.

REQUIREMENTS FOR MINOR IN MATHEMATICS

Fourteen units of mathematics beyond Calculus II.

DUAL DEGREE PROGRAM WITH GEORGIA INSTITUTE OF TECHNOLOGY

See under Natural Science.

COURSES IN MATHEMATICS

[21. FUNDAMENTALS OF MATHEMATICS]
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 or four units. (Not offered 1973-74.)

21(E). TEACHING AND THE FUNDAMENTALS OF MATHEMATICS
A combination of a 3-unit course, Math 21: Fundamentals of Mathematics, taught by the mathematics department and a 1-unit course on approaches used and materials available in the teaching of mathematics within the elementary school taught by the education department. Required for elementary certification. Four units.

141-142. PRE-CALCULUS MATHEMATICS
Algebraic, exponential, and logarithmic functions, analytic trigonometry, complex numbers, theory of equations, matrices and determinants, sequences and series, mathematical induction. Designed for freshmen who are not prepared to begin calculus. The first semester can fulfill the core requirement in mathematics. Six units. Mr. Donaldson.

[143. 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 21 or equivalent. Three units. (Not offered 1973-74.)

145-146. 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. Pre-
requisite: Mathematics 142 or equivalent for 145, Mathematics 145 or 146. Eight
units. Mr. Keister.

247. CALCULUS WITH ANALYTIC GEOMETRY III
A continuation of Mathematics 145-146. Vectors, and parametric equations, solid
analytic geometry and vectors, partial differentiation, multiple integration, infinite ser-
ies. Prerequisite: Mathematics 146. Four units. Mr. Keister.

341-342. 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 247 or consent of the instructor.
Six units. Mr. Keister.

343. 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 geometries. Prerequisite: Mathematics 247 or consent of the instruct¬
or. Three units. Mr. Keister.

345-346. MATHEMATICAL PROBABILITY AND STATISTICS
Introduction to probability, finite sample spaces, conditional probability and inde-
pendence, random variables and their characterization, special discrete and continuous
distributions, the moment-generating function, sums of random variables, sampling distri-
butions, estimation of parameters, testing hypotheses. Prerequisite: Mathematics 247
or consent of the instructor. Six units. Mr. Keister.

[348-349. 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 247 for 348 and 348 for 349. Eight units. (Offered on
demand.)

441-442. APPLIED MATHEMATICS
Topics in advanced calculus, vector calculus; calculus of variations, Fourier series,
Laplace transforms, Fourier transforms; topics in complex variables. Prerequisite:
Mathematics 348. Three units. Mr. Keister.
MEDICAL TECHNOLOGY

REQUIREMENTS FOR MAJOR IN NATURAL SCIENCE—
CONCENTRATION IN MEDICAL TECHNOLOGY
(B.A. IN MEDICAL TECHNOLOGY)

The program in medical technology calls for early and extensive counseling of students in order that they be properly informed of the requirements and aims of the program. A student entering this program 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.

I. Ninety-seven hours of college work, at least one year of which (the third year) should be taken at Covenant College.

These 97 hours should include the following requirements:

- Foundations of Modern Culture
- Old Testament and New Testament
- English Composition or Speech
- Foreign Language (or option)
- Pre-calculus Mathematics
- Christian Doctrine
- Philosophy of the Christian Faith
- Distribution Requirements
  - (social science-psychology, history-philosophy, arts-literature)
- P.E. and First Aid
- General Biology
- General Chemistry
- General Physics
- Organic Chemistry
- Four additional biology courses including Genetics,
  - Human Physiology and Bacteriology

77 to 97

*Some or all of which may be bypassed through testing for advanced placement

Recommended electives (if language or other requirements have been bypassed by testing): Introduction to Statistics (3), Principles of Electronics (3), Analytical Chemistry (4 or 8), Biochemistry (4).

II. Thirty hours from an approved school of Medical Technology.
REQUIREMENTS FOR MAJOR IN BIBLE AND MISSIONS,
CONCENTRATION IN MISSIONS

In addition to the general requirements for graduation (see page 14), the following are required for a Bible and missions major, with a concentration in missions:

- Missions studies: 12 units
- Bible Seminar: 4 units
- Bible "book study courses": 6 units
- One other course in Bible or missions (non-core): 3 units

Total: 25 units

Students following a single major in Bible and missions (no minor) will also take the following requirements from other disciplines:

- History 311-312: History of Christianity: 6 units
- Philosophy: 3 units
- Psychology: 3 units

Greek is strongly recommended for a Bible and missions major, and the twelve units from other disciplines listed above are recommended for students following a major-minor program.

REQUIREMENTS FOR MINOR IN MISSIONS

- Missions courses, including 202 and 301: 9 units
- Other Bible or missions course (non-core): 3 units

COURSES IN MISSIONS

[201. THE CHURCH'S MISSION TO THE MEDIEVAL FAR EASTERN CIVILIZATION]
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 motivation, methodology, related doctrines, and results of each effort will be evaluated. Three units. Open to freshmen with permission of the instructor. Mr. Young. (Not offered 1973-74.)

[202. 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. Mr. Young. (Not offered 1973-74.)

301. 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.

302. 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. Mr. Young.

[303. 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 1973-74.)

[304. 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 doctrine of the church. Three units. (Not offered 1973-74.)

[401. MISSIONS SEMINAR]
A study in depth of four mission fields representing different levels of culture and church growth, from advanced to primitive, to understand the culture and problems, appraise the methods used and seek answers for the future. Three units. (Not offered 1973-74.)

[402. 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 1973-74.)

MUSIC

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 or two performing organizations to which the student may belong simultaneously, but such credit will not fulfill any course requirements, including electives. All must sustain a performance examination at the end of each semester. All music majors are required a Basic Piano Proficiency of Level III, sight reading of simple accompaniments to art songs, instrumental solos, or piano music, and perfor-
formance of a prepared piano composition or accompaniment. The student is to enroll for private piano instruction with or without credit until this requirement is met.

Applicants for the music programs will follow the standard application procedure for the college, but will be admitted to the music programs only by audition. Auditions may be made by tape and submitted to the music department, preferably in the spring, or personal auditions may be held by special appointment. Scholarships or playing grants are available for those needing financial aid. Requests for applications and information should be submitted to Scholarship Committee, Covenant College.

REQUIREMENTS FOR MAJOR IN MUSIC, B.A. DEGREE

The purpose of the curriculum is to provide both a broad, liberal arts education and a concentrated training in applied and academic music. Private lessons are offered in piano, organ, voice, and the orchestral instruments. Completion of this program requires a total of 126 units, including 48 units of music.

<table>
<thead>
<tr>
<th>Bible and Liberal Arts Requirement</th>
<th>Music Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Old Testament (41 or 42)</strong></td>
<td>Applied Music (major instrument) 16</td>
</tr>
<tr>
<td><strong>New Testament (45 or 46)</strong></td>
<td>Theory I</td>
</tr>
<tr>
<td><strong>81-82 Christian Doctrine</strong></td>
<td>Theory II</td>
</tr>
<tr>
<td><strong>91-92 Philosophy of the Christian Faith</strong></td>
<td>Music History</td>
</tr>
<tr>
<td><strong>Foreign Language</strong></td>
<td>Conducting</td>
</tr>
<tr>
<td><strong>31-32 Foundations of Modern Culture</strong></td>
<td>Ensemble (maximum)</td>
</tr>
<tr>
<td><strong>English Composition or Speech</strong></td>
<td>Electives</td>
</tr>
<tr>
<td><strong>Distribution Courses: Humanities</strong></td>
<td>Concert and recital attendance (minimum three per semester)</td>
</tr>
<tr>
<td><strong>Math or Logic</strong></td>
<td>Total</td>
</tr>
<tr>
<td><strong>Science</strong></td>
<td><strong>Degree Total</strong></td>
</tr>
<tr>
<td><strong>Physical Education</strong></td>
<td></td>
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<tr>
<td><strong>First Aid</strong></td>
<td></td>
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<tr>
<td><strong>Electives</strong></td>
<td></td>
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<tr>
<td><strong>Total</strong></td>
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</tbody>
</table>

**REQUIREMENTS FOR MINOR IN MUSIC**

- Music Theory I, 161-162                        8 units
- Introduction to Music, 171                     3 units
- Ensemble for 2 semesters                      1-2 units
- Applied Music, 2 semesters                    4 units
REQUIREMENTS FOR MAJOR IN MUSIC EDUCATION, BACHELOR OF MUSIC DEGREE

This program provides training for prospective choral and instrumental teachers at both the elementary and secondary levels, along with a proficiency in various areas of applied music. In addition, a broad core curriculum is included.

<table>
<thead>
<tr>
<th>Bible and Liberal Arts Requirement</th>
<th>Music Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Old Testament (41 or 42)</td>
<td>Applied Music—principal instrument 14</td>
</tr>
<tr>
<td>New Testament (45 or 46)</td>
<td>Theory I 8</td>
</tr>
<tr>
<td>81-82 Christian Doctrine Faith</td>
<td>Theory II 8</td>
</tr>
<tr>
<td>91-92 Philosophy of the Christian</td>
<td>Music History 6</td>
</tr>
<tr>
<td>Culture</td>
<td>Conducting 4</td>
</tr>
<tr>
<td>Science or Foreign Language</td>
<td>Ensemble (each semester) (maximum) 4</td>
</tr>
<tr>
<td>31-32 Foundations of Modern Culture</td>
<td>English Composition or Speech Piano proficiency 0</td>
</tr>
<tr>
<td>English Composition or Speech</td>
<td>Math 3</td>
</tr>
<tr>
<td>Math</td>
<td>Physical Education 1</td>
</tr>
<tr>
<td>First Aid</td>
<td>Electives 9</td>
</tr>
<tr>
<td>Electives</td>
<td>Total 44</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong> 49</td>
</tr>
</tbody>
</table>

*Music Education Requirements*

- Instrumental Methods 8
- Music in the Elementary School 2
- Educational Psychology 3
- Principles and Teaching and Learning 3
- Structure of Knowledge 3
- Teaching Practicum 8
- Electives (Music or Music Education) 6
- **Total** 33

Degree Total 126

*These requirements may be adjusted to meet specific state certification requirements other than Georgia for students who seek certification in another state. Information on certification requirements for all states is available in the education office.

REQUIREMENTS FOR MAJOR IN APPLIED MUSIC, BACHELOR OF MUSIC DEGREE

This is a pre-professional program designed to prepare students for performance, church music, or for graduate studies in applied music (piano, voice, or...
orchestral instruments), musicology, theory, or related studies. In addition to
the intensive private study in applied music, the program includes sufficient
to:
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>
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<th>Music Requirements</th>
</tr>
</thead>
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<tr>
<td>Old Testament (41 or 42)</td>
<td>Applied Music—major instrument 32</td>
</tr>
<tr>
<td>New Testament (45 or 46)</td>
<td>Theory I</td>
</tr>
<tr>
<td>81-82 Christian Doctrine</td>
<td>8</td>
</tr>
<tr>
<td>91-92 Philosophy of the Christian</td>
<td>Theory II</td>
</tr>
<tr>
<td>Faith</td>
<td>8</td>
</tr>
<tr>
<td>*Foreign Language</td>
<td>Music History</td>
</tr>
<tr>
<td>31-32 Foundations of Modern</td>
<td>6</td>
</tr>
<tr>
<td>Culture</td>
<td>Conducting</td>
</tr>
<tr>
<td>English Composition or Speech</td>
<td>4</td>
</tr>
<tr>
<td>Physical Education</td>
<td>Form and analysis</td>
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<td>First Aid</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>Junior recital</td>
</tr>
<tr>
<td></td>
<td>Senior recital</td>
</tr>
<tr>
<td>Total</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Concert and recital attendance</td>
</tr>
<tr>
<td></td>
<td>(minimum three per semester) 0</td>
</tr>
<tr>
<td></td>
<td>Music electives</td>
</tr>
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<td>77</td>
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<tr>
<td></td>
<td>Degree Total</td>
</tr>
<tr>
<td></td>
<td>126</td>
</tr>
</tbody>
</table>

*Students may elect to take one year each of two languages (16 units)

REQUIREMENTS FOR GEORGIA CERTIFICATION IN MUSIC, GRADES 1-12

See Requirements for Major in Music Education, Bachelor of Music Degree

COURSES IN MUSIC

Courses in History and Literature

171. 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. (This course may be exempted by music majors upon examination.) Three
units.

371-372. MUSIC HISTORY AND LITERATURE

An intense study of the music of all ages designed for the music major but open to
others with the approval of the instructor. Three units each semester.
373. 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. Mr. Halvorsen.

374. VOICE LITERATURE
A comprehensive study of art song literature. Two units. (Not offered 1973-74.)

473. CHORAL LITERATURE
A comprehensive study of the choral literature of all periods. Two units. (Not offered 1973-74.)

474. SYMPHONIC LITERATURE
A course in the study of symphonic literature of the eighteenth, nineteenth, and twentieth centuries. Two units. Mr. Parker.

Courses in Theory

161-162. 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.

261-262. 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.

362. COUNTERPOINT
The harmonic contrapuntal technique of the eighteenth century. Second semester. Two units. (Not offered 1973-74.)

363-364. FORM AND ANALYSIS
A course in the analysis of all forms prevalent in the eighteenth and nineteenth centuries. Detailed study of structure of phrases, periods, transitions, parts, songs, dance forms, and sonata form. Extensive analysis of actual works such as Mendelssohn Songs Without Words and Beethoven Sonatas. Prerequisite: Music Theory II. Two units each semester. Mr. Hamm. (Not offered 1973-74.)

461. 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. Two units. Mr. Parker. (Not offered 1973-74.)

Courses in Music Education

254. VOCAL METHODS
Objectives and techniques of the choral program in the elementary and secondary schools, with emphasis on vocal production, rehearsal procedures, repertoire, rote tech-
niques, organization, etc. Offered in spring semester of alternate years. Two units. (Not offered 1973-74.)

**INSTRUMENTAL METHODS**
Class instruction in instruments of the orchestra in preparation for teaching in elementary and secondary schools. Tone production, fingerings, methods of teaching, and literature are taught for each instrument. Each music education major is required to take all of the four instrumental courses offered, including two semesters of string methods.

[251. WOODWIND METHODS]
Clarinet concentration, and flute, oboe, bassoon methods. Offered in the fall semester of alternate years. Two units. Mr. Parker. (Not offered 1973-74.)

[252. BRASS METHODS]
Trumpet concentration, also french horn, trombone, and tuba methods. Offered in spring semester of alternate years. Two units. Mr. Parker. (Not offered 1973-74.)

253. PERCUSSION METHODS
Snare drum concentration, also tympani, and tuned percussion methods. Offered in fall semester of alternate years. Two units.

255-256. STRING METHODS
Violin concentration, and viola, cello, and bass methods. Two units each semester.

352. MUSIC IN THE ELEMENTARY SCHOOL
Objectives and techniques of the choral and instrumental program in the elementary school, with emphasis on methods, materials, the child's voice, listening techniques for children, audio-visual material, recordings, rhythm bands, beginning instrumental programs, and the middle school concept. Offered in the spring semester. Two units. Mr. Parker.

**Miscellaneous Music Courses**

282. BASIC CONDUCTING
Fundamental conducting techniques, including beat patterns, left hand dynamic control, simple phrasing, tempo and rhythmic changes. One unit.

381. CONDUCTING, INSTRUMENTAL AND VOCAL
Continued development of the conducting skills. Rehearsal techniques, principles of interpretation. Two hours per week and membership in Chorale, Community Chorus, or Chamber Orchestra. Prerequisite: Basic conducting. Two units. Mr. Hamm.

[481. PEDAGOGY]
Pedagogy in voice, piano, or other major instrument. Two units. (Not offered 1973-74.)

**Performance Organizations**

190. STAGE BAND
Membership is by audition. One-half hour class weekly plus outside practice. One-half unit each semester. Mr. Parker.
191,192. ORATORIO 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 each semester. Mr. Hamm.

193-194. 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.

195,196. 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.

197-198. CHAMBER ORCHESTRA
Membership is by audition. All instrumental music majors are required to participate. Three hours rehearsal weekly. Two units per year. Mr. Parker.

199,200. INSTRUMENTAL ENSEMBLE
Membership is by audition. String trio, quartet, piano trio, wind ensembles, etc. are arranged according to student needs and performance levels. One-half unit per semester.

CHATTANOOGA SYMPHONY ORCHESTRA
Membership is by audition with the Symphony Director. Students are allowed to perform either as amateur or, where quality permits, as professional union musicians, according to the orchestra's musical needs. Financial details may be obtained by writing Dr. Richard Cormier, Musical Director, Chattanooga Symphony Orchestra, Chattanooga, Tennessee.

Courses in Applied Music
Private instruction for credit in piano, voice, and orchestral and band instruments is available to all music majors. Students other than music majors will need special approval from the music department. Private instruction for credit on any instrument for which a resident college teacher is not available may be arranged, for all music majors, with qualified off-campus teachers approved by the music department. The department chairman will assist in scheduling private instruction off campus. For lesson fees, see page 76.

All students studying privately, whether music majors or not, are required to attend all recitals.

Except for 101-102, two units of credit are given each semester for one hour of daily practice and one-half-hour lesson each week. Majors in applied music are required to take two half-hour lessons per week and two hours 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.
The level assigned at the beginning of a semester (preferably on the basis of an audition) is subject to being changed in the course of that semester if the student does not prove to work at that level.

Course numbers with a middle digit “0” are to be applied to students who are not music majors. 101-102, no credit; otherwise, two units each semester.

Course numbers with a middle digit of “1” are to be applied to students enrolled in the Music Major, B.A. Degree program. Two units each semester.

Course numbers with a middle digit of “2” are to be applied to students enrolled in the Music Education major program. Two units each semester.

Course numbers with a middle digit of “3” are to be applied to the minor instrument of students enrolled in the Applied Music major program, and for those working to meet the Basic Piano Proficiency Level. 131-132, one unit each semester; otherwise, two units each semester.

Course numbers with a middle digit of “4” are to be applied to the major instrument of students enrolled in the Applied Music major program. Four units each semester.

LEVEL I: Beginner; 101-102, 131-132.
LEVEL II: Elementary; 101-102, 131-132.
LEVEL V: Advanced, first stage; 301-302, 311-312, 321-322, 141-142, 331-332.
LEVEL VI: Advanced, second stage; 401-402, 411-412, 421-422, 431-432.
LEVEL VII: Advanced, third stage; 341-342.
LEVEL VIII: Advanced, fourth stage; 441-442.

An adequate description of these levels can be obtained from the instructor of the particular applied area.

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**NATURAL SCIENCE**

**REQUIREMENTS FOR MAJOR IN NATURAL SCIENCE—CONCENTRATION IN BIOLOGY**

At least 23 hours beyond Biology 111-112, including 218, 313, 411; Chemistry 121-122; Mathematics 141 and 142. Chemistry 323-324 and Physics 131-132 should be taken in most cases. Consult with adviser.

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.

This program calls for early and extensive counseling of students in order that they be properly informed of the requirements and aims of the program. A person entering
This program 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.

<table>
<thead>
<tr>
<th>Freshman</th>
<th>Fall</th>
<th>Spring</th>
<th>Sophomore</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 111-112</td>
<td>4</td>
<td>4</td>
<td>Mathematics</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 121-122</td>
<td>4</td>
<td>4</td>
<td>Doctrine</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>O.T. and N.T.</td>
<td>3</td>
<td>3</td>
<td>Biology</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>English Composition or Speech</td>
<td>3</td>
<td>-</td>
<td>Educational Psychology</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>General Psychology</td>
<td>-</td>
<td>3</td>
<td>Principles of Teaching</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Physical Education</td>
<td>½</td>
<td>½</td>
<td>Physical Education</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>Foundations of Modern Culture</td>
<td>4</td>
<td>4</td>
<td>Foreign Language (or option)</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>18½</td>
<td>18½</td>
</tr>
</tbody>
</table>

| Junior           |      | Senior                          |      |        |
| Physics 131-132  | 4    | Philosophy of the Christian Faith | -    | 2      |
| Chemistry 323-324| 4    | Biology                         | 4    | -      |
| Biology          | 4    |                                 | 3    | -      |
| Structure of Knowledge | 3 | -      | Distribution Requirements | 6 | -      |
| Foreign Language (or option) | 3 | 3      | Current Concepts in Biology | 3   | -      |
| Philosophy of the Christian Faith | -  | 2      | Directed Studies in Biology | 1 | -      |
|                  | 18   | 17                              | 14   | 13     |

REQUIREMENTS FOR MAJOR IN NATURAL SCIENCE—CONCENTRATION IN CHEMISTRY

At least 20 hours beyond Chemistry 121-122; Biology 111-112; Physics 131-132 and 333; Mathematics 145-146.

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.

This program calls for early and extensive counseling of students in order that they be properly informed of the requirements and aims of the program. A person entering this program 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.

Entering freshmen who desire to pursue this major should plan to take calculus the first year. It is recommended, therefore, that they present mathematics through trigonometry from high school.

Because certain courses are normally offered in alternate years, a student may need to follow a different sequence from that suggested below.
### REQUIREMENTS FOR MAJOR IN NATURAL SCIENCE—CONCENTRATION IN MATHEMATICS OR PHYSICS

Biology 111-112; Chemistry 121-122; Physics 131-132, 237-238, 231, 332, 337, 431, 432; Mathematics 145-146, 247, 341-342, 348. Mathematics 345-346 is required for those concentrating in mathematics; desirable options are Natural Science 103 and Mathematics 343, 441-442.

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.

This program calls 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 this program will ordinarily have to make his decision earlier in his college career than is necessary for some if the other programs offered by the college.

Entering freshmen who desire to pursue this major should plan to take calculus the first year. It is recommended, therefore, that they present mathematics through trigonometry from high school.

<table>
<thead>
<tr>
<th></th>
<th>Freshman</th>
<th></th>
<th>Sophomore</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Fall</td>
<td>Spring</td>
<td>Fall</td>
<td>Spring</td>
</tr>
<tr>
<td>O.T. and N.T.</td>
<td>3</td>
<td>3</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 145-146</td>
<td>4</td>
<td>4</td>
<td>Mathematics 247, 348</td>
<td>4</td>
</tr>
<tr>
<td>Physics 131-132</td>
<td>4</td>
<td>4</td>
<td>Chemistry 121-122</td>
<td>4</td>
</tr>
<tr>
<td>Physical Education</td>
<td>½</td>
<td>½</td>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>English Composition or Speech</td>
<td>3</td>
<td>–</td>
<td>Education 221-222</td>
<td>3</td>
</tr>
<tr>
<td>Foundations of Modern Culture</td>
<td>4</td>
<td>4</td>
<td>Foreign Language</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>18½</td>
<td>15½</td>
<td>19</td>
<td>18</td>
</tr>
</tbody>
</table>
**Junior**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Junior</th>
<th>Senior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics 341-342</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Physics 231, 431</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Physics 237-238</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Education 321</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Philosophy of the Christian Faith</td>
<td>–</td>
<td>2</td>
</tr>
</tbody>
</table>

|                      | 17 | 16 |

**Senior**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Senior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Philosophy of the Christian Faith</td>
<td>–</td>
</tr>
<tr>
<td>Distribution Requirements</td>
<td>9</td>
</tr>
<tr>
<td>Physics 337</td>
<td>1</td>
</tr>
<tr>
<td>Physics 332</td>
<td>3</td>
</tr>
<tr>
<td>Physics 432*</td>
<td>3</td>
</tr>
<tr>
<td>Student Teaching</td>
<td>–</td>
</tr>
<tr>
<td>Education 324</td>
<td>–</td>
</tr>
</tbody>
</table>

|                      | 16 | 13 |

*Students desiring a concentration in mathematics will substitute an advanced mathematics course.

**Requirements for Major in Natural Science—Concentration in Medical Technology (B.A. in Medical Technology)**

See Medical Technology.

**Dual Degree Program with Georgia Institute of Technology**

Dual degree candidates are eligible to seek any of the following degrees from Georgia Tech:

**Engineering College:**

- Bachelor of Aerospace Engineering
- Bachelor of Ceramic Engineering
- Bachelor of Chemical Engineering
- Bachelor of Civil Engineering
- Bachelor of Electrical Engineering
- Bachelor of Engineering Economic Systems
- Bachelor of Engineering Science
- Bachelor of Industrial Engineering
- Bachelor of Mechanical Engineering
- Bachelor of Nuclear Engineering
- Bachelor of Science in Textile Chemistry
- Bachelor of Science in Textiles
- Bachelor of Textile Engineering
- Bachelor of Science (Health Systems)

**General College:**

- Bachelor of Science in Information and Computer Science
- Bachelor of Science in Applied Mathematics
- Bachelor of Science in Physics
- Bachelor of Science in Chemistry

58
In the case of highly qualified students the Georgia Tech degree may be at the master’s level.

The following courses are to be taken at Covenant in three years.

<table>
<thead>
<tr>
<th>Core</th>
<th>Additional Requirements to meet those specified by Georgia Tech</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundations of Modern Culture</td>
<td>Social Science</td>
</tr>
<tr>
<td>*Bible</td>
<td>General Chemistry</td>
</tr>
<tr>
<td>Christian Doctrine</td>
<td>General Physics</td>
</tr>
<tr>
<td>Philosophy of the Christian Faith</td>
<td>An advanced physics course</td>
</tr>
<tr>
<td>Physical Education and First Aid</td>
<td>Calculus and Analytical Geometry</td>
</tr>
<tr>
<td>*English Composition or Speech</td>
<td>Differential Equations</td>
</tr>
<tr>
<td>*Foreign Language (1 year) or option</td>
<td>Mechanics</td>
</tr>
<tr>
<td>(or 6 if option)</td>
<td></td>
</tr>
</tbody>
</table>

37 or 35

**Distribution Requirements**

| Science (see below) | 3 |
| The Arts            | 3 |
| History—philosophy  | 3 |
| Social Science      | 3 |

9

*Not required if test score is adequate

**COURSES IN NATURAL SCIENCE**

(These courses may not be applied to the majors in biology or chemistry.

103. ELEMENTS OF GEOLOGY AND ASTRONOMY

Study of earth science emphasizing principles of historical and physical geology. Laboratory work with geological specimens. Telescopic observation. Three hours lecture. Two hours laboratory. Laboratory fee: $15.00. Four units. Mr. Wenger.

104. EVOLUTION AND BIOLOGICAL ADAPTATIONS

Principles of macroevolution and microevolution examined critically. Heredity and its chemical basis will be studied as a foundation. Three hours lecture. Two hours laboratory. Laboratory fee: $15.00. Four units. Mr. Lothers.
Covenant College has arrangements with several of the country's leading collegiate schools of nursing that allow students to enter these schools for completion of the Bachelor of Science in nursing. By satisfactorily completing two years in the pre-nursing curriculum at Covenant College, the student may apply for admission on the junior level to the following schools: The College of Nursing, University of Tennessee at Memphis; The Faculty of Medicine, School of Nursing, Columbia University, New York City; and the School of Nursing, Emory University, Atlanta, Georgia. There are other schools of nursing to which the student can also transfer. Covenant's pre-nursing curriculum is worked out on an individual basis according to prerequisites of the selected school of nursing.

At Emory University and at Columbia University the B.S. in nursing can be earned in two additional years, and in three additional years at the University of Tennessee.

<table>
<thead>
<tr>
<th>First Year</th>
<th>Fall</th>
<th>Spring</th>
<th>Second Year</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundations of Modern Culture</td>
<td>4</td>
<td>4</td>
<td>Biology</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry</td>
<td>4</td>
<td>4</td>
<td>Literature</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Bible</td>
<td>3</td>
<td>3</td>
<td>Sociology or Psychology</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Nursing</td>
<td>-</td>
<td>0</td>
<td>Christian Doctrine</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Psychology or Sociology</td>
<td>3</td>
<td>3</td>
<td>Electives</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Electives</td>
<td>0-3</td>
<td>3</td>
<td></td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>14-17</td>
<td>17</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

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: English Composition, Literature, Bible, Mathematics, Sociology, Speech, Intermediate Foreign Language, History, Philosophy, Psychology, Fine Arts, and Physical Education.

**COURSE IN NURSING EDUCATION**

101. INTRODUCTION

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.


PHILOSOPHY

REQUIREMENTS FOR MAJOR IN PHILOSOPHY

In addition to the general requirements for graduation (see page 14), the following are required for a philosophy major:

Twenty-four units of philosophy courses, 200-level or above. At least 18 units must be 300-level or above.

REQUIREMENTS FOR MINOR IN PHILOSOPHY

The student will take a total of 12 hours, of which at least 6 shall be elective. The required 6 hours will depend upon the student's major and will be decided upon by the philosophy department in conjunction with the student.

COURSES IN PHILOSOPHY

22. 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. McLelland.

101. INTRODUCTION TO PHILOSOPHY

A course intended to introduce the student to some of the terms, problems, arguments, methods, presuppositions, and systems which have been significant in the field of philosophy. Some of the major philosophers will also be studied in connection with these aspects. Three units. Mr. McLelland.

NOTE: Philosophy 101, Introduction to Philosophy, or the permission of the instructor is a prerequisite for taking a philosophy course numbered 200 or above.

200. PHILOSOPHICAL ANALYSIS

A detailed examination of the method of philosophical inquiry and analysis into such areas as meaning, knowledge, truth, causality, etc. Three units. Mr. McLelland.

201. ETHICS

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

202. PHILOSOPHY OF RELIGION

An investigation into the major philosophical problems in religion: the existence of God, the character of religious knowledge and verification, the nature of religious language, etc. Three units. Mr. Sanderson.
[301. ANCIENT PHILOSOPHY]  
From the earliest beginnings to the end of Antiquity. Four units. Mr. Sanderson.  
(Not offered 1973-74.)

302. MEDIEVAL AND RENAISSANCE PHILOSOPHY  
From the disciples of Augustine to Leibniz. Four units. Mr. Sanderson.

303. THE PHILOSOPHY OF THE ENLIGHTENMENT  
From Locke to Kant. Four units. Mr. Sanderson.

304-305. RECENT PHILOSOPHY  
An examination of basic trends of post-Kantian thought. Some attention will be given to the philosophy of science. German Idealism, Pragmatism, Positivism, Analytic Philosophy, Phenomenology, and Existentialism. Six units. Either semester may be taken for credit. Mr. McLelland.

306. PHILOSOPHY OF ART  
The clarification of terms and a discussion of proposed criteria for aesthetic judgments. Major works will be read and discussed. Three units. Mr. McLelland.

[309. ADVANCED LOGIC]  
The propositional calculus and general quantification theory, with some attention to practical application of these principles. Three units. (Not offered 1973-74.)

[310. PHILOSOPHY AND LANGUAGE]  
A study and evaluation of some of the writings of those philosophers who have made important contributions regarding both the nature of different types of language and the influences of language on philosophical theories. Three units. Mr. McLelland. (Not offered 1973-74.)

399-400. 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 a thesis on the historical background and contemporary status of a major philosophical problem will be required. One, two, or three units.

[401. PHILOSOPHY OF SCIENCE]  
A study of the nature, scope, and limitations of scientific method and explanation with some attention being given to scientific concepts such as causality, space, time, etc. Some inquiry will be made into the relationship between science and human values. Three units. Mr. McLelland. (Not offered 1973-74.)

407. PHILOSOPHY SEMINAR  
An in-depth inquiry into the work of a given philosopher, a specific problem in philosophy, or a specific area of philosophical concern. Three or four units. Mr. Sanderson, Mr. McLelland.
CORE REQUIREMENT IN PHYSICAL EDUCATION

Physical Education is required of all freshmen except married students, military veterans, and those excused for medical reasons.

All sophomores are required to take one semester of First Aid and Health. Upon satisfactory completion of the course students are presented the Standard Red Cross First Aid Certificate.

There is a $7.50 fee for Physical Education and First Aid and Health. Each class meets once a week.

In addition to the required Physical Education and First Aid and Health classes, a complete program of intramural games and intercollegiate sports is offered. The intramural program enables students to compete on team and individual bases against members of other classes and the faculty. The winning men’s and women’s teams are presented trophies known as the President’s Cup. The intercollegiate program consists of men’s soccer, JV and Varsity basketball, baseball, and cross-country.

REQUIREMENT FOR MINOR IN PHYSICAL EDUCATION

<table>
<thead>
<tr>
<th>Theory</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to PE</td>
<td>3 units</td>
</tr>
<tr>
<td>Problems in PE</td>
<td>2 units</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Skills</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Team Sports</td>
<td>3 units</td>
</tr>
<tr>
<td>Biological Sciences</td>
<td></td>
</tr>
<tr>
<td>General Biology</td>
<td>8 units</td>
</tr>
<tr>
<td>Human Physiology</td>
<td>4 units</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Elective</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>3 or 5 units</td>
</tr>
<tr>
<td>Comparative Anatomy</td>
<td></td>
</tr>
</tbody>
</table>

23 or 25 units

COURSES IN PHYSICAL EDUCATION

51-52. HEALTH AND PHYSICAL EDUCATION
Two semesters. One unit. Fee $7.50.

55. FIRST AID AND HEALTH
One semester. One unit. Fee: $7.50.

130. INTRODUCTION TO PHYSICAL EDUCATION
An introduction into the movement, men and methods of physical education from the Greco-Roman era to the present day. The contributions of the men and the changing
methods will be researched. Each student will be required to do an individual project.
Three units, Mr. Bowman.

131. SENIOR LIFESAVING
One unit.

132. RED CROSS WATER SAFETY INSTRUCTION
One unit.

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

[231. PROBLEMS IN PHYSICAL EDUCATION]
To create an awareness into the current problems, trends, and issues in the field of
physical education. To identify and utilize varied sources of information and to make
aware of new methods and materials. Two units. (Not offered 1973-74.)

233. 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, Mr. Bowman.

234. TEAM SPORTS
Methods of soccer, basketball, baseball, and volleyball are stressed. Principles of rules
and officiating are also introduced. Three units, Mr. Bowman.

235. 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. Bow-
man.

236. 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 plan-
ning, principles of teaching and scheduling, and unit planning are included in the course.
Three units. Mr. Bowman.

237. ADMINISTRATION OF SECONDARY SCHOOL ATHLETICS
Study and discussion of the various phases of organization and administration. Ad-
ministrative principles and the development of athletics in the school and community.
Three units. Mr. Bowman.

331. 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. Mr. Bowman.

[332. CAMPING AND RECREATION]
Development of the recreational movement in America in respect to leisure time.
Community and national programs and laws. The organizational and administrative aspects of camping programs; the basis on which a camping program is developed. Three units. (Not offered 1973-74.)

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.

PHYSICS

REQUIREMENTS FOR MAJOR IN NATURAL SCIENCE—CONCENTRATION IN MATHEMATICS OR PHYSICS

See under Natural Science.

REQUIREMENTS FOR MINOR IN PHYSICS

For those fulfilling the natural science distribution requirement with Natural Science 103-104, General Biology, or General Chemistry:

General Physics plus 8 other hours in physics.

For those fulfilling the natural-science distribution requirement with General Physics:

12 other hours in physics.

DUAL DEGREE PROGRAM WITH GEORGIA INSTITUTE OF TECHNOLOGY

See under Natural Science.

COURSES IN PHYSICS

131-132. 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.

231. MODERN PHYSICS

Modern ideas in physics: quantum theory, relativity, nuclear and atomic structure, fundamental particles. Prerequisites: Physics 131-132, Mathematics 145-146. Three hours lecture. Three units. Mr. Keister.
331. ELECTRICITY AND MAGNETISM
Electrostatics, d.c. circuits, magnetism, induced current, transients, and a.c. networks. Prerequisite: Mathematics 247-248. Three hours lecture. Three units. Mr. Keister.

332. ANALYTICAL MECHANICS
Particle and rigid body mechanics, harmonic oscillators, and an introduction to advanced dynamics. Prerequisite: Mathematics 145-146. Three hours lecture. Three units.

333. PRINCIPLES OF ELECTRONICS
Fundamental theory of electron ballistics, semi-conductors, and vacuum tubes. Applications to modern scientific instrumentation will be stressed. Prerequisite: Physics 131-132. Two hours lecture. Three hours laboratory. Three units. Mr. Dameron.

334. QUANTUM MECHANICS
The origins of quantum theory, uncertainty of relations, formalism of wave mechanics, central potential problem, phase-shift, coulomb interaction, harmonic oscillator, angular momentum, perturbation theory. Prerequisite: Physics 231, 331; Mathematics 348. Three units. Mr. Keister.

337-338 (237-238). EXPERIMENTAL PHYSICS
Advanced laboratory experiments designed to integrate and augment work in lecture courses. Prerequisite: Physics 131-132. Three hours laboratory. Laboratory fee: $10.00 per semester. Two units. Mr. Dameron.

431-432. SPECIAL TOPICS IN PHYSICS
Concentration in selected fields of study. Prerequisite: senior standing. Three units each semester Mr. Dameron. (Offered on demand.)

PRE-MINISTERIAL CURRICULUM

The following course suggestions are proposed to serve as guidelines for pre-ministerial students at Covenant College. A student planning to enter theological seminary should consult the catalogs of the seminaries to which he may apply for their specific admissions requirements.

The Christian ministry calls for a broad acquaintance with the thought and life of our contemporary world and of our cultural heritage. It also requires a knowledge of people and an ability to communicate with them. Quite obviously it demands a thorough understanding of the Bible, the source of our message of the Gospel.

Much of the specialized knowledge for the ministry can be gained in theological seminary, but the broad foundation should be laid in college. Covenant’s liberal arts curriculum is designed to help the pre-ministerial student achieve such a general background. In the core curriculum Greek, logic, and speech are recommended to fulfill the requirements. The sequence of geology-astronomy and evolution is recommended for fulfillment of the laboratory science requirement.

Any one of several majors is possible for the pre-ministerial student, including Bible
and missions, philosophy, history, English, or psychology. The minor may be selected from any of these same fields plus sociology or education. The recommended major, however, is either the Bible and missions major or the inter-disciplinary program with Bible or missions and some combination of the fields named above included.

Certain courses are strongly recommended in the pre-ministerial program: John or Romans, Theology of Missions, at least one philosophy course, History of Christianity, at least one literature course, Introduction to Music, and General Psychology. In addition to these, certain other courses are also recommended: Christian Ethics, Genesis, Bible Seminar, all of the missions courses, Introduction to Philosophy, Plato, Medieval Thought, Modern World History, Renaissance and Reformation, Sociology and Psychology of Religion, Literature and Contemporary Problems, Church Counseling, and Principles of Teaching and Learning.

**PSYCHOLOGY**

**REQUIREMENTS FOR MAJOR IN PSYCHOLOGY**

Psychology 101, 203-204, 301, 302, and any other 9 units of psychology courses 300-level or above, including at least 3 units 400-level or above.

**REQUIREMENTS FOR MINOR IN PSYCHOLOGY**

Psychology 101, 203-204, and any other 3 units of psychology courses 300-level or above.

**REQUIREMENTS FOR GEORGIA SECONDARY SCHOOL CERTIFICATION IN BEHAVIORAL SCIENCE**

1) Normal requirements for a major in psychology.
2) In addition, a minimum of nine units in sociology.
3) In addition, a minimum of six units from any of the following areas: a) economics, b) history, c) geography, d) political science.
4) A teaching minor in education (see Teacher Education Program).
5) A minimum of three units of mathematics.

**COURSES IN PSYCHOLOGY**

101. GENERAL PSYCHOLOGY

The foundation course for the department. A brief survey of the various fields of psychology, including human development, research methods, motivation, emotion, learning theory, personality, and statistics. Three units.
NOTE: Psychology 101, General Psychology, or the permission of the instructor is a prerequisite for all subsequent courses in psychology.

[201. PROBLEMS OF CHURCH COUNSELING]
Designed for men and women planning for careers in church or mission related setting. Identification of behavioral and communications problems. Role playing, techniques of counseling, and referral to appropriate community agencies. Three units. (Not offered 1973-74.)

203-204. HISTORY AND DEVELOPMENT OF PSYCHOLOGY
A two-semester course covering development of the discipline from the early Greeks to the present. Three units per semester.

222. EDUCATIONAL PSYCHOLOGY
Theories of learning and teaching, the formation of concepts, and major concepts in the discipline are studied with a Christian perspective. The concepts offered by Piaget, Bruner, Ausubel, Gagne, Stimulus-Response Theory, and Cognitive Theories form key content. Pre-practicum experiences include those in Education 221. More emphasis is placed on relating course content to the pre-practicum experience. There is a conscious attempt to use learning and instructional theory in classroom experiences. Three units. Mrs. Steensma.

244. SOCIAL PSYCHOLOGY
An analysis of the individual and his relationship to society. Examines development of life style patterns, considers major social psychological theories, and seeks to apply to the Christian life. Three units. Mr. Muller.

301. CHILD AND ADOLESCENT PSYCHOLOGY
Traces the physical, mental and emotional development of the child from before birth to adolescence. Analyzes shifts of morality and difficulties in family adjustment. Three units.

302. ADULT PSYCHOLOGY
A continuation of the growth patterns and behavioral problems from early adulthood till death. Includes a study of the emotional difficulties faced by individuals in retirement, prolonged illness, etc. Three units.

[303. 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 1973-74.)

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, Frankl, and Glasser. Three units.

[307. PSYCHOPATHOLOGY]
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. Prerequisite: Biology 111 and 319. Four units. (Not offered 1973-74.)

[310. SEMINAR IN PSYCHOTHERAPY]
Open only to advanced psychology major students. Study of techniques of psychotherapy through papers and by application of its principles to group members themselves. Prerequisites: Psychology 301, 306, 307. Three units. (Not offered 1973-74.)

341. THE FAMILY
A sociological analysis of the family, from both a historic and a contemporary perspective. Emphasis upon changes in family structure, functions, and roles with special attention being given to the Biblical conception of the family. Three units. Mr. Muller.

[342. SOCIOLOGY AND PSYCHOLOGY OF RELIGION]
A study of the nature and development of religions, cults, and sects as they relate to the social structure. Emphasis upon the church as a social institution, and on various patterns of religious behavior. Three units. Mr. Muller. (Not offered 1973-74.)

[343. SOCIOLOGY OF HEALTH]
A study of the social factors related to physical and mental illness. Attention given to the doctor-patient relationship, community mental health, the delivery of health care services, and a Christian perspective on mental illness. Three units. (Not offered 1973-74.)

344. SOCIAL PSYCHOLOGY OF GROUPS
Study of the dynamics of group relations with special emphasis being given to group principles and processes such as decision-making and problem-solving, and theories of collective behavior. Three units. Mr. Muller.

[345. DYNAMICS OF SOCIAL CHANGE]
An analysis of the major trends and theories in social change. Emphasis is given to the understanding of current areas of social change. Students to share with class in seminar format. Three units. Mr. Muller. (Not offered 1973-74.)

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

[401. SPECIAL PROBLEMS IN PSYCHOLOGY]
Students submit and discuss papers on contemporary issues in psychology, concentrating on critical analysis of secular psychology and development of Christian views. Three units. (Not offered 1973-74.)

[408. PRACTICUM IN COUNSELING]
To be taken with Psychology 409. Senior psychology majors who are Field Interns share written reports, tapes, and group concepts to develop critical evaluation and professional growth. Prerequisites: Psychology 301, 306, 307. Three units. (Not offered 1973-74.)

[409. FIELD INTERNSHIP]
To be taken with Psychology 408. Senior psychology majors are assigned as coun-
selors or assistants in various social service youth agencies. Three units. (Not offered 1973-74.)

SOCIOLOGY

REQUIREMENTS FOR MINOR IN SOCIOLOGY

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sociology 141</td>
<td>3</td>
</tr>
<tr>
<td>Other courses in sociology, but not including Sociology 329</td>
<td>9</td>
</tr>
<tr>
<td>Total</td>
<td>12</td>
</tr>
</tbody>
</table>

COURSES IN SOCIOLOGY

141. PRINCIPLES OF SOCIOLOGY
A general introduction to the major features of our society, including treatment of the social order, intergroup relations, and the major social institutions. Three units. Mr. Muller.

241. SOCIAL PROBLEMS
A survey of the pervasive and life-cycle problems that confront contemporary society today. Special emphasis will be given to poverty, racism, and crime and delinquency. A Christian approach toward contemporary social problems will be discussed. Three units. Mr. Muller.

[243. POPULATION AND SOCIETY]
The study of the basic components of demography will be covered: fertility, mortality, and migration. These basic components will be examined with respect to their impact on other social institutions. Current population problems and trends will also be considered. Three units. Mr. Muller. (Not offered 1973-74.)

244. SOCIAL PSYCHOLOGY
An analysis of the individual and his relationship to society. Examines development of life style patterns, considers major social psychological theories, and seeks to apply to the Christian life. Three units. Mr. Muller.

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. Mr. Muller.

341. THE FAMILY
A sociological analysis of the family, from both a historic and a contemporary per-
spective. Emphasis upon changes in family structure, functions, and roles with special attention being given to the Biblical conception of the family. Three units. Mr. Muller.

[342. SOCIOLOGY AND PSYCHOLOGY OF RELIGION]
A study of the nature and development of religions, cults, and sects as they relate to the social structure. Emphasis upon the church as a social institution, and on various patterns of religious behavior. Three units. Mr. Muller. (Not offered 1973-74.)

[343. SOCIOLOGY OF HEALTH]
A study of the social factors related to physical and mental illness. Attention given to the doctor-patient relationship, community mental health, the delivery of health care services, and a Christian perspective on mental illness. Three units. (Not offered 1973-74.)

344. SOCIAL PSYCHOLOGY OF GROUPS
Study of the dynamics of group relations with special emphasis being given to group principles and processes such as decision-making and problem-solving, and theories of collective behavior. Three units. Mr. Muller.

[345. DYNAMICS OF SOCIAL CHANGE]
An analysis of the major trends and theories in social change. Emphasis is given to the understanding of current areas of social change. Students to share with class in seminar format. Three units. Mr. Muller. (Not offered 1973-74.)

TEACHER EDUCATION PROGRAM

REQUIREMENTS FOR TEACHING MINOR IN EDUCATION

All prospective teachers must have a major in an academic discipline and a teaching minor in education. The teaching minor in education must include the following professional sequence:

221: Principles of Teaching and Learning 3 units
222: Educational Psychology 3 units
321: Structure of Knowledge 3 units
322/324: Designing Teaching/Learning Models 3 units
422/424: Teaching Practicum 8 units

A minimum of two of the first three (221, 222, 321) courses must be taken at Covenant or another Christian college.

Planning a program leading to certification should begin in the sophomore year since certain required courses may be offered only in alternate years. A person desiring certification in a state other than Georgia should also begin planning early in his program. Information on certification requirements in all states is available in the education office.
REQUIREMENTS FOR ADMISSION TO THE TEACHER EDUCATION PROGRAM

All prospective teachers must gain admission to the Teacher Education Program before they will be allowed to enroll in Education 321: Structure of Knowledge. Application forms are available in the education office. The requirements for admission are:

1) Completion of Education 221 with the grade of C or better
2) A cumulative grade point average of 2.00 or better
3) Completion of at least 26 semester units of credit
4) Completion of at least one semester in residence at Covenant College
5) A recommendation by a professor at Covenant College
6) A recommendation by the Office of Student Affairs.

REQUIREMENTS FOR ELIGIBILITY TO STUDENT TEACH

Persons desiring to student teach must formally apply and be declared eligible before enrolling in Education 422/424: Teaching Practicum. Forms for this purpose are available in the education office.

The requirements for eligibility are:

1) Acceptance into the Teacher Education Program
2) Completion of Education 222 and 321 with the grade of C or better
3) A cumulative grade-point average of 2.00 or better
4) Completion of at least 58 semester units of credit
5) A recommendation by a professor in major discipline
6) A recommendation by a professor under whom two or more education courses were taken.

THE PROFESSIONAL SEMESTER

Persons who have been admitted to the Teacher Education Program and have been approved to student teach may participate in a professional semester during their senior year. No course work other than the following will be allowed during this semester:

92: Philosophy of the Christian Faith 2 units
322/324: Designing Teaching/Learning Models 3 units
422/424: Teaching Practicum 8 units

REQUIREMENTS FOR ELEMENTARY CERTIFICATION (GRADES 1-8)

Georgia T-4 Professional (elementary) certification will be granted to persons who include a teaching minor in education and the following courses within their degree program:

*Art for Children and Adolescents 3 units
Fundamentals of Reading 3 units
Literature for Children and Adolescents 3 units
History of the United States 6 units
Teaching and Fundamentals of Mathematics 4 units
Music in the Elementary School 2 units
Physical Education in the Elementary School 3 units

*Can fulfill a distribution requirement.
**Can fulfill a core requirement.

It is recommended (but not mandatory) that persons desiring to teach on the elementary level choose the Inter-Disciplinary Studies major with concentrations in English, history, and education.

**REQUIREMENTS FOR SECONDARY CERTIFICATION (GRADES 7-12)**

Georgia T-4 Professional (secondary) certification will be granted to persons completing a degree program which includes a major in either biology, chemistry, English, history, or psychology and a teaching minor in education. Specific course requirements are listed under each discipline.

**REQUIREMENTS FOR MUSIC CERTIFICATION (GRADES 1-12)**

Georgia T-4 Professional (music) certification will be granted to persons completing the requirements leading to a Bachelor of Music Degree with a major in Music Education. (For details see listings under Music Department.)

**COURSES IN EDUCATION**

21(E). TEACHING AND THE FUNDAMENTALS OF MATHEMATICS

A combination of a 3-unit course, Math 21: Fundamentals of Mathematics, taught by the mathematics department and a 1-unit course on approaches used and materials available in the teaching of mathematics within the elementary school taught by the education department. Required for elementary certification. Four units. Mrs. Steensma.

221. PRINCIPLES OF TEACHING AND LEARNING

After an initial acquaintance with the current scene in education, scriptural principles are studied to provide a basis for decision-making in education. These principles guide the study of the organization and curriculum of the school, the roles of teachers and students, professional relationships, and the control of the school. This course also provides content and experiences related to philosophical and sociological foundations of education. Pre-practicum experiences include tutoring individual students or small groups, observing classes, working with a classroom teacher, and/or visiting various kinds of schools. The course provides foundational knowledge for those who know they want to teach. Its content and experiences prove helpful to those just exploring the possibility of a career in education. Three units. Mrs. Steensma.
222. EDUCATIONAL PSYCHOLOGY
Theories of learning and teaching, the formation of concepts, and major concepts in the discipline are studied with a Christian perspective. The concepts offered by Piaget, Bruner, Ausubel, Gagne, Stimulus-Response Theory, and Cognitive Theories form key content. Pre-practicum experiences include those in Education 221. More emphasis is placed on relating course content to the pre-practicum experience. There is a conscious attempt to use learning and instructional theory in classroom experiences. Three units. Mrs. Steensma.

235. PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL
(See Physical Education 235.) Required for elementary certification.

321. STRUCTURE OF KNOWLEDGE (CURRICULUM THEORY)
An introduction to epistemology in preparation for an analysis of each academic discipline to determine what is known, the manner of inquiry, and the relationship to every other discipline. A Christian world-and-life view is key to the content. Students selecting either elementary or secondary levels profit by sharing this content. They develop an understanding of the conceptual structure of the discipline and the contributions other disciplines offer to theirs. The aim is to view reality as an integrated whole rather than a collection of parts. Three units. Mrs. Steensma.

322/324. DESIGNING TEACHING/LEARNING MODELS
The content is shared by all students regardless of interest, elementary (322) or secondary (324) levels. Students register by number for certification purposes. The study of teaching strategies leads to the development of teaching units related to the student's discipline, the educational level for which he is registered, and for use during the teaching practicum experience. Students become involved with multi-media hardware and software as it pertains to their teaching area. The pre-practicum experience includes observation of and involvement with the cooperating classroom teacher with whom he will practice teach during the final eight weeks of the semester. Three units. Mr. Fennema.

326. FUNDAMENTALS OF READING
This course includes a general survey of approaches to reading and a study of some critical analyses of these approaches. Students will be involved in local schools in pre-practicum experiences. Required for elementary certification. Three units.

352. MUSIC IN THE ELEMENTARY SCHOOL
(See Music 352.) Required for elementary certification.

366. LITERATURE FOR CHILDREN AND ADOLESCENTS
(See English 366.) Required for elementary certification.

394. ART FOR CHILDREN AND ADOLESCENTS
Essential techniques, methods, and materials in classroom organization and the operational phases of an arts program. A study of the elements of design and the organization of these basic elements. Required for elementary certification. Three units.

422/424. TEACHING PRACTICUM
The final eight weeks of the professional semester are spent in an actual teaching experience on a full-day basis. No other college course work is allowed during this period. A weekly seminar is conducted with the college supervisor. Eight units. Mr. Fennema.
FINANCIAL INFORMATION

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 at registration to cover the expenses of the semester. Students may obtain the funds from their own sources or they may participate in the Student Billing Program administered by the Master Charge Department of the American National Bank and Trust Company of Chattanooga, TN. Write the Business Office for details on the operations of the program.

The Registrar's Office will not issue transcripts of academic credit for students with unpaid college accounts. The Registrar's Office will also not admit students with unpaid account for a new semester.

Fees and Expenses

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td>Application fee (payable only once)</td>
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</tr>
<tr>
<td></td>
<td>Tuition, per semester (12-17½ units)</td>
<td>825.00</td>
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<td>Tuition, for students taking fewer than 12 units, per unit</td>
<td>70.00</td>
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<td></td>
<td>Tuition, for units in excess of 17½, per unit</td>
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<td></td>
<td>College Program Support Fee, per semester</td>
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<td>Residence</td>
<td>Dormitory equipment fee (payable only once)</td>
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<td>Key deposit</td>
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<td>Board, per semester</td>
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<td>Room, per semester (includes linens)</td>
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<td>Special</td>
<td>Advance deposit on fees (not refundable)</td>
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<td>Late registration</td>
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<td></td>
<td>Change in course</td>
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<tr>
<td></td>
<td>Late placement test, each</td>
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</table>
Examinations at unscheduled hours 5.00
Transcripts, after first, each 1.00
Auto registration fee, per semester 10.00
Physical education fee, semester, including uniform 17.50
Graduation fee (does not include GRE fees) 20.00
Chorale fee, per year 3.00
Transportation to and from terminals, to be announced
Auditing fee, per unit 35.00
Late payment fee:
   per day during first week after due date 3.00
   or, after that week 25.00
Laboratory fees in sciences (see course descriptions in catalog)
Music
Fees for private instruction
   For full-time students (per semester):
      One half-hour lesson weekly 50.00
      Two half-hour lessons weekly 100.00
   For students not enrolled at the college:
      One half-hour lesson 4.00
Additional charge may be necessary for instruction taken off-campus.

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 programs begin.
   Students engaged in Education 422/424: Teaching Practicum follow the calendar of the school to which they are assigned for their student teaching and therefore, if they reside in the dormitories, are permitted to remain during the college recesses for no extra room charges. They will provide their own meals.
   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, and College Program Support Fee, be paid at registration. This amount is approximately $1400.00.
   If the student is not able to pay the full amount at registration time, he
must plan to participate in the Student Billing Program administered by the Master Charge Department of the American National Bank and Trust Company of Chattanooga. Under this program he has 25 days in which to pay this bill without incurring a carrying charge. After that, interest charges are determined at the rate of 1½% per month on the unpaid balance. The billing will be on the basis of three equal payments.

Students with outstanding accounts at the end of the semester will not receive grades or transcripts for their academic work and will not be allowed to register for additional studies.

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 semester. 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.

I. Tuition Scholarships

A modest number of academic scholarships up 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.

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.

The food service company 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. Those who are eligible must file applications.

The Donald Andrew Mouritzen 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 Direct 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 Irvine 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 Miss Phyllis Y. Crooks of the Student Aid Committee. 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. The Covenant College code number is 3951.

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 tuition fees will be refunded or remitted. Board will be refunded on a pro rata basis.

Schedule. Refunds are granted only upon written application to the Business Office of the College, when a student has withdrawn formally through the office of the Dean of Students. The college will normally adjust accounts on tuition and fees. The following policy will prevail:

If the student leaves during the first two weeks, a refund on tuition and 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 on days remaining in the semester. No refund is allowed on a late registration fee. Due to the nature of commitments concerning dormitory room availability, room charges are not refundable.

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 pro rata 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.

Insurance

Students desiring to bring cars to campus must provide a Certificate of Binder from their insurance companies.

All students not completing an insurance waiver card will be required to participate in the student medical insurance program sponsored by the college. Details on coverage and cost are available upon request from the Business Office.

All students desiring to participate in the college's intercollegiate athletic program must participate in the student medical insurance program.
## COLLEGE CALENDAR FOR 1973-74

### FIRST SEMESTER

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>August 13</td>
<td>Soccer Camp begins</td>
</tr>
<tr>
<td>August 21</td>
<td>New Students arrive on campus</td>
</tr>
<tr>
<td>August 22, 23</td>
<td>Academic Orientation</td>
</tr>
<tr>
<td>August 23, 24</td>
<td>Registration</td>
</tr>
<tr>
<td>August 27</td>
<td>Classes begin</td>
</tr>
<tr>
<td>September 7</td>
<td>Last day to add a course, to change courses, or to change to or from Pass/Fail</td>
</tr>
<tr>
<td>September 28</td>
<td>Last day to drop a course or change to audit</td>
</tr>
<tr>
<td>September 29</td>
<td>Homecoming</td>
</tr>
<tr>
<td>October 2</td>
<td>Grub Day</td>
</tr>
<tr>
<td>October 18-22</td>
<td>Fall Recess</td>
</tr>
<tr>
<td>October 19</td>
<td>College for a Day</td>
</tr>
<tr>
<td>October 22</td>
<td>Mid-semester marks due</td>
</tr>
<tr>
<td>October 23</td>
<td>Classes resume</td>
</tr>
<tr>
<td>November 14</td>
<td>Day of Prayer</td>
</tr>
<tr>
<td>November 22</td>
<td>Thanksgiving Recess</td>
</tr>
<tr>
<td>November 23</td>
<td>Classes resume</td>
</tr>
<tr>
<td>November 27-29</td>
<td>Christian Thought Conference</td>
</tr>
<tr>
<td>December 14-20</td>
<td>Final examinations</td>
</tr>
</tbody>
</table>

### SECOND SEMESTER

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 9</td>
<td>Registration</td>
</tr>
<tr>
<td>January 10</td>
<td>First day of classes</td>
</tr>
<tr>
<td>January 23</td>
<td>Last day to add a course, to change courses, or to change to or from Pass/Fail</td>
</tr>
<tr>
<td>February 14</td>
<td>Last day to drop a course or change to audit</td>
</tr>
<tr>
<td>February 27</td>
<td>Day of Prayer</td>
</tr>
<tr>
<td>March 1</td>
<td>Mid-semester marks due</td>
</tr>
<tr>
<td>March 9-18</td>
<td>Spring Recess</td>
</tr>
<tr>
<td>March 19</td>
<td>Classes resume</td>
</tr>
<tr>
<td>April 11</td>
<td>Grub Day</td>
</tr>
<tr>
<td>May 4-10</td>
<td>Final Examinations</td>
</tr>
<tr>
<td>May 11</td>
<td>Commencement</td>
</tr>
</tbody>
</table>

Additional concerts and lectures and other cultural, athletic and social events will be scheduled throughout the year.
Covenant College is a four-year liberal arts college of the Reformed Presbyterian Church, Evangelical Synod, and is fully accredited by the Southern Association of Colleges and Schools.

CORRESPONDENCE:

For GENERAL INFORMATION, write Dr. Marion D. Barnes, President.

For ADMISSIONS INFORMATION, APPLICATION FORMS, and TRANS-CRIPTS, write Mr. Rudolph F. Schmidt, Dean of Admissions.

For STUDENT AFFAIRS INFORMATION, write Dr. John P. Cummer, Dean of Students.

For FINANCIAL AID INFORMATION, write Miss Phyllis Y. Crooks, Student Aid Committee.

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