1981

Dordt College 1981-82 Catalog

Dordt College. Registrar's Office

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CONTENTS

THE AIMS/2
THE HISTORY/2
ACCREDITATION/3
THE CAMPUS/3
  Location
  Buildings
ACADEMIC COMMUNITY/7
  Christian Commitment
  Student Activities
  Housing
ADMISSION TO THE COLLEGE/12
EXPENSES AND FINANCIAL AIDS/14
  Expenses
  Financial Aids
SCHOLARSHIPS AND GRANTS/21
THE ACADEMIC PROGRAM/24
  Graduation Requirements
ACADEMIC POLICIES/27
PROGRAMS OF STUDY/31
COURSES OF INSTRUCTION/43
COLLEGE PERSONNEL/94
GEOGRAPHICAL DISTRIBUTION/104
ACADEMIC CALENDAR/106
CAMPUS MAP/107
INDEX/110


The Aims

Dordt College is controlled by an incorporated, free society. The members of this society desire Christian higher education which is in agreement with their Reformed, Calvinistic principles. The constituents honor the Bible as the divinely inspired, infallible, inscripturated Word of God, the only rule for faith and practice. In the face of varying interpretations of Scripture, the constituents of Dordt College are bound by the interpretation articulated in the Three Formulae of Unity — The Belgic Confession, the Heidelberg Catechism, and the Canons of Dort. These Formulae of Unity are in agreement with and flow out of the Calvinistic understanding of the Scriptures. Calvinism, which finds its source primarily in John Calvin's Institutes of the Christian Religion, is a world-and-life view which seriously seeks to apply the principles of Scripture to all areas of life. The sovereignty of God is the basic principle in this system. All instruction at Dordt College must arise out of commitment to the Reformed faith as expressed in the Three Formulae of Unity. Dordt College understands Christian formal education as that which contributes to the edification of Christian character, i.e. the total person in all his aspects (physical, emotional, social, intellectual, spiritual), so that he may realize himself in all his capabilities and opportunities as God's image-bearing servant under Christ and rightly fulfill his purpose in society.

The History

Dordt College had its inception in 1937 with the educational leadership of the Christian Reformed Churches in the Midwest. At that time, communications concerning a Christian two-year college were circulated among the various classes of the area. The actual implementing of the idea was delayed through the intervention of the national emergency anent World War II. New impetus was given to the movement after the war by reason of the critical shortage of qualified teachers for the Christian schools of the Midwest area.

The College was organized in 1953 as the Midwest Christian Junior College. Under this name, instruction began in September, 1955. In 1956, the name of the College was changed to Dordt College.

The Dordt College Executive Board at its September, 1959, meeting appointed a committee to study the possibility of having Dordt become a four-year college. After extensive study, a Society meeting was held on October 16, 1962. At this meeting, the Society approved the addition of the junior and senior years. Thus, in September, 1963, the junior class was added. In 1965, the first class received the A.B. degrees.
Accreditation

Dordt College is accredited by the North Central Association of Colleges and Secondary Schools as a four-year bachelor’s degree granting institution.

The Iowa Department of Public Instruction has approved Dordt’s program of teacher education. Graduates of the teacher education program receive the Iowa Professional Certificate which is valid for a period of ten years.

The college is also approved to train veterans under Public Law 550, war orphans under Public Law 634, and students from foreign countries.

THE CAMPUS

Location

The Dordt College campus is located in Sioux Center, Iowa, a prosperous, rapidly growing community in Northwest Iowa. Recreational facilities available to students include the Sandy Hollow nine-hole golf course and swimming area, two parks, a football-track stadium, and an indoor swimming pool adjacent to the Dordt campus which is available to all Dordt students. Sioux Center is situated on Highway 75, forty-five miles northeast of Sioux City, Iowa and fifty-five miles southeast of Sioux Falls, South Dakota.

Buildings

The Classroom Building — The Classroom Building combines both the old and new in classroom facilities. The older section contains several classrooms as well as the business office, business machine labs, a media center, Dordt Press, listening lab, and New World Theater.

The newer section of the building features two 200-seat lecture halls and five classrooms. The building also contains Public Relations, College Development, and College President’s offices.

Chapel-Music Center — The chapel-music center is the newest facility on campus. It was completed in 1979. It consists of two main sections, a music building and a large chapel-auditorium. The music building houses rehearsal rooms and studios for all of the musical organizations on campus, as well as vocal and instrumental practice rooms and music faculty offices. The chapel-auditorium, which is used for chapel services, concerts, organ recitals, and special events, contains seating for approximately 1500 people and a large, beautiful Casavant pipe organ.

The Art-Administration Building — The Art-Administration Building, built in 1962, offers facilities for the art program. The building contains two large studios and offices for the art department. Other offices include those for the academic administrative staff. These offices accommodate the Vice-President for Academic Affairs, the Registrar, the
Director of Admissions and Financial Aid, the Admissions Counselors for the college, and offices for academic advising and counseling.

**The Library** — The library was occupied in the fall of 1966, with an addition completed in 1978. This building provides book shelving for over 100,000 volumes and seating for 350 students. The library contains a workroom, librarian's office, circulation desk, reference section, periodicals section including microforms, learning resources center, reading areas, book stacks, conference rooms, and a career information center. The building also contains a Dutch archives collection, faculty offices, and classrooms. A terminal connects the library with OCLC computer center, Columbus, Ohio, and is used for cataloging of material and for interlibrary loans.

**The Natural Sciences Building** — The original building was completed in September of 1968. An addition was completed in 1978 and additional greenhouse facilities were added in 1980. This building contains three biology labs, three chemistry labs, two physics labs, agriculture department facilities, three research labs, facilities for study and research of live plants and animals, a darkroom, a shop, storage rooms, ten faculty offices, three lecture rooms, one seminar room, and a greenhouse.

**The Commons** — The first section of the Commons was completed in 1964. Wings were added in 1966, 1969, and 1979. The building has complete facilities for serving all meals to students living in the dormitories, in the residence halls, and in college approved private housing.

**Radio/Communications Center** — An extensive expansion project was completed in 1974 on the radio station KDCR-FM. The new facilities include a master control room, a production studio, a classroom-studio, and an announcer's booth. The project also included a station administration office, a program director's office, a secretarial-reception area, and an engineer's workroom. Remaining space in the new building facilitates a record and tape library, a transmitter, and newswire services.

**The Physical Education Building** — The Physical Education Building was completed in September, 1968 with an addition completed in 1979. This building has a gymnasium which can be divided into three sections for physical education classes. When used for athletic events, the gymnasium will seat 2500 people. The building also contains six offices, a classroom, locker rooms, a weight-training room, an intramural equipment room, racquetball/handball court, and the necessary service areas.

**The Student Union Building** — The SUB serves as a social and recreational center for the college community. The ground level contains a student lounge-art gallery area. In addition, the main floor contains a coffee shop and the college bookstore.

On the lower level, is a four-lane bowling alley, billiard and ping-pong tables, a darkroom, student publications offices, the Dean of Students office, and the Counseling Center.

**Astronomical Observatories** — Two astronomical observatories, located off campus and privately owned by Professor Hodgson, are freely available to Dordt students. The principal telescopes are 8-inch, 12½-inch, and 16-inch aperture Newtonian reflectors (the latter the largest in western Iowa), and a 5-inch aperture wide angle refractor. Smaller, portable telescopes are also available. In addition to educational programs, research on planets, satellites, and variable stars is undertaken at these facilities.

**The Residence Halls** —

**West Hall** — This dormitory was built in 1964 and houses 160 students.

**North Hall** — This dorm serves as a men's dormitory equipped to accommodate 200.
East Hall — This dormitory was completed in 1970 to provide housing for 200 women.

East Campus Apartments — The apartment complex includes six buildings housing 276 students. Four apartment complexes each have eight three-bedroom apartments that are equipped to facilitate light housekeeping and two apartment complexes have eight three-bedroom apartments with no light housekeeping facilities. Each apartment complex is equipped with laundry facilities. Two apartments are used for personnel and apartment management.
Christian Commitment

As a Christian Institution, Dordt College aspires to be a community of faculty and students committed to the study and evaluation of the various branches of learning in the light of the Bible, God’s infallible Word. The life of this community has both its academic and social aspects, and, in both of these aspects of life, all members of the Dordt College community seek to glorify the triune God.

In accordance with the Christian aim of Dordt College, students are expected to express the Christian faith positively in their general conduct and lifestyle. It is not the purpose or intention of Dordt College to lay down minute regulations for the daily conduct of its students. By their applications for admission, students certify that they intend to live according to the Christian aims of the College. Though admission to Dordt College is the rightful privilege of its constituency, that privilege may be withdrawn readily should the student fail to maintain proper standards of conduct or scholarship.

Students are expected to attend church services twice each Sunday. Students who are not able to attend their home church must, at the time of registration, select one of the local churches as their church home.

Chapel exercises are held twice each week to provide opportunity for students and faculty to join in meditation upon the Word of God. All students are expected to attend chapel exercises regularly, not out of compulsion, but out of recognition of the need for spiritual refreshment and sharing. The chapel exercises play a vital role in the life of the College community.

Each school year begins with the College Retreat at Lake Okoboji. This is followed throughout the year by Bible study groups, lecture series, dormitory devotions, etc. Recognizing the importance of the spiritual aspect of student life, the College also provides pastoral counseling for each student. Members of the Student Personnel staff meet with and help students regarding questions and problems which may be troubling them. Thus, the College seeks to maintain and develop a vibrant spiritual climate on campus in the context of which the work of Christian scholarship may be effectively carried on.

Placement services are offered to those graduates who are seeking full-time employment. Each year, credentials are prepared for students registered with the Placement Office to aid them in their search for employment. Interviews are arranged with Christian school officials as well as representatives from business and industry for the benefit of those seeking employment.

Student Activities

Athletics

Dordt College is a member of the National Association of Inter-collegiate Athletics, the Association of Intercollegiate Athletics for Women, and the IO-KOTA Women’s Athletic Conference. As a member of the NAIA, Dordt College teams are eligible for post-season
tournament play. Dordt plays a full schedule of games with colleges in Iowa, Minnesota, South Dakota, and Nebraska. Intercollegiate competition for men is scheduled in basketball, baseball, track, cross-country, golf, tennis, and soccer. Competition for women is scheduled in basketball, softball, volleyball, track, cross-country, and tennis.

**Intramurals**

A year-round program of intramural sports gives all students an opportunity to take part in physical recreational activities, both competitive and non-competitive. The entire intramural program is planned and carried out by the student intramural council. Physical recreation is provided through such activities as: archery, badminton, basketball, bowling, 100 Mile Club, softball, table tennis, volleyball, flag football, swimming, cycling, and decathlon.

**Club Sports**

Students have also organized a number of sports clubs which supplement this regular program, allowing for inter and intrascholastic competition. Among these club sports are:

- Hockey Club
- Outdoor-Recreation Club
- Table-Tennis Club
- Swimming Club
- Wrestling Club
- Volleyball Club

Additional clubs may be organized as student interest demands. The Club Sports Program is under the supervision of the Clubs Committee.

**Clubs**

A number of clubs are organized to provide outlets for students with special interests. All clubs must receive Clubs Committee approval.

- Agriculture Club
- Art Club
- Chess Club
- Council for Exceptional Children
- Forensics Club
- Future Business Executives Club
- Language Club
- Natural Science Club
- Phi Kappa Sigma
- Photography Club
- Political Science Club
- Pre-Seminary Club
- Service Club
- Social Services Club
- Varsity Club

**Social Activities**

The College schedules many social activities throughout the year. Students are encouraged to participate in campus activities as an important part of college life at Dordt.

In addition to club activities, athletics, and musical activities, a number of social events are planned by the Activities Committee. Students are encouraged to attend the Fine Arts Festivals, the college sponsored Travelogue Series, the Annual Music Festival, the Christmas Party, the Spring Banquets, and all other school activities organized by the student representatives.
Several dramatic productions are given each year. All students who wish to participate are urged to audition. Opportunity is also given to participate in other forensic activities.

**Musical Activities**

Vocal and instrumental groups are maintained at Dordt College to contribute to the social and cultural life of the individual and to offer opportunity for professional training and credit toward graduation.

**Chorale**

All new students, as well as upperclassmen may audition for membership in the Chorale, an organization which studies representative chorale literature and performs several local concerts each year.

**Concert Choir**

Each year, the Concert Choir presents a number of local concerts and makes an extended tour during spring vacation. Membership in the choir is open by audition.

**Concert Band**

The Concert Band studies representative symphonic band literature and performs at athletic games and other student activities. Local concerts are performed and a tour is made periodically.

**Ensembles**

Ensembles and small groups are organized each year to study ensemble literature and adequate opportunity is provided for performance.

**Orchestra**

Students may audition for membership in the Orchestra at the beginning of the school year. The Orchestra performs local concerts each year.

**College Publications**

DORDT COLLEGE DIAMOND, the school newspaper, published bi-weekly by the students.

THE SIGNET, an annual student publication—issued in the summer.

THE CANNON, the creative literary publication in the arts.

THE DEFENDER, a booklet with information for students—distributed in the summer.

DORDT COLLEGE VOICE, the official college newsletter, presents articles and information of interest to students and the constituency.

DORDT COLLEGE CATALOG, an annual publication of academic announcements for students and society members.

PRO REGE, a quarterly publication of the Dordt College faculty.

DORDTELL, the quarterly Alumni Newsletter.
Student Services

Counseling

A Counseling Center has been established as a program of the Student Personnel Department to offer counseling service within the Dordt College community. These services are designed to promote and enhance responsible academic activity and meet the individual counseling needs of the community. The Counseling Center is staffed by trained personnel to assist students with their social, emotional, spiritual, and vocational problems.

The staff provides assistance for students searching for careers by helping them recognize their own resources and talents and by exploring with them the variety of careers available. The Center contains a resource reference area with a wide selection of career information.

In addition to individual counseling, the Counseling Center provides classes and workshops dealing with career development, college living, personal growth and life enrichment.

Job Placement

Formal placement services are provided for all students graduating with either a four-year or two-year degree. Presently, there are two placement offices. The teacher placement is directed by the Associate Academic Dean and the non-teacher placement by the Counseling Center Coordinator.

Housing

On-and Off-Campus Housing

All unmarried students, with the exception of those who live at home or with relatives, are required to room in college approved housing. The college reserves the right to make housing adjustments when necessary. The charge for rooms per semester in private homes is the same as in the college residence halls except in the case of light housekeeping facilities. This room rent is paid to the college not to the home owner.

Room for incoming freshman and transfer students are reserved in advance upon receipt of a deposit of $30.00. The deposit fee is applied to the first semester’s rent and is refunded if the room reservation is cancelled before July 1st. Room reservations will be made in the order that room deposits are received. All students who register for the first time at Dordt must remit a $25.00 wear and maintenance fee with their housing application. This fee will be refunded when the student terminates residence at Dordt College if no excessive wear has been sustained.

Rooms for returning upperclassmen are reserved in advance upon the receipt of $30.00. This deposit will be applied to the first semester’s rent and is a non-refundable deposit.

Housing Regulations

Rooms are furnished with necessary articles of furniture, such as beds, mattresses, desks, chairs, and dressers. Students provide their own blankets, bedspread, pillows, towels, and washcloths. Students should bring their own irons. Weekly linen service is provided at a nominal charge. The students who live in college residence halls must make
use of the college approved plan for weekly linen service. This service is also available to students living off campus.

The student, by applying for a room and paying a deposit, obligates himself to occupy that room for the entire year or for such portion of the year as he may attend Dordt. Each room contract terminates at 10:00 a.m. the day following the last day of examinations.

The charges set by the College do not include the Christmas and spring vacation periods. During these vacations the dining hall, the dormitory, and the residence halls will be closed. The college will make arrangements for those who cannot go home or to a friend's home during these vacation periods.

Rooms of students on and off campus are open for college inspection at all times. The student is held responsible for any damage to his room or to its furnishings.

Each residence hall is under the supervision of a head resident. Home owners supervise students in private homes. Students are responsible to the residence advisor or to the home owner and they are expected to abide by all college determined housing regulations in addition to those listed in this catalog. For a more complete statement of rules regarding student housing and student conduct, see *The Defender*, the student handbook.

**Meals**

All students, except for married students and students who have been assigned to light housekeeping apartments, are expected to take their meals at the college dining hall unless excused by parents and the College. Cooking is not permitted in the college residence halls.
Admission to the College

Requirements
Graduates of approved high schools who have satisfactorily completed a minimum of fifteen units may be considered for admission to Dordt College. A subject pursued for one school year of thirty-six weeks with five recitation periods a week counts as one unit.

Of the fifteen units, at least eight must be from the fields of social science, English, foreign languages, natural science, or mathematics.

Although the exact sequence of courses for admission is not prescribed, high school students should try to complete, as a minimum, the following units:

- 3 or 4 years of English
- 2 years of social sciences
- 2 years of mathematics
- 2 years of a foreign language
- 2 years of a natural science

Non-Discrimination Policy
Dordt College admits students of any race, color, national and ethnic origin to all the rights, privileges, programs, and activities generally accorded or made available to students at the school. Dordt does not discriminate on the basis of sex, race, color, national or ethnic origin, age, or handicap in administration of its educational and admissions policies, scholarship and loan programs, athletic, and other school administered programs.

Application
Application for admission should be made well in advance of the semester a student wishes to enter Dordt College. To make a formal application for admission, candidates should write to the Director of Admissions requesting application blanks.

Students will be considered for admission after they have submitted the following official forms:

- Personal Application Form
- Transcript of high school record

All students seeking admission to the college must pay a matriculation fee of $10.00. This fee must accompany the Personal Application.

Entrance Test
All applicants for admission to the freshman class are required to take the ACT test of the American College Testing Program. Information concerning dates and testing centers for the ACT tests can be obtained from high school principals. Students who do not take the ACT test during the senior year will be required to take the ACT test at Dordt College. A fee will be charged for this testing.

Notification of Admission
As soon as all application forms have been received they will be evaluated by the Director of Admissions. Admission will be granted as follows:

General Admission — Students whose records indicate that they are able to pursue college work are granted general admission.
Admission on Probation — Students whose records indicate that they might have serious difficulty pursuing college work are admitted on probation.

Transfer Admissions

Students who have attended another institution of collegiate rank may be considered for admission with advanced standing. College credits presented by transfer students will be evaluated in terms of the quality of the student’s work and the relationship of the subject matter to the Dordt curriculum. A maximum of sixty-four semester hours of academic credit is granted to graduates of junior colleges.

Transfer candidates will be required to file the following credentials with the Associate Academic Dean:

1. Personal Application Form.
2. Transcript of high school record.
3. Official college transcripts. Transfer candidates must have the Registrar at each collegiate institution attended forward an official transcript. Transcripts submitted by the candidate are not acceptable.
4. Test results. Transfer students should have ACT test results forwarded to Dordt.

After the application materials have been evaluated, the student will receive notification of the action taken. If the student is accepted, he will receive a statement concerning the amount of credit accepted and the academic status assigned.

Admission to advanced standing does not excuse the student from meeting the specified requirements for graduation from Dordt College.

Special Students

Students who do not plan to follow a prescribed course of study may register as special students for such courses as they are able to pursue with profit on the basis of previous qualifications. Students who pursue part-time programs are also classified as special students.

Permission to register as a special student must be obtained from the Associate Academic Dean.

Admission of Foreign Students

Dordt College has been approved as an institution of higher education for the training of immigrant students who are in the United States on student visas.

With the letter of admission, the College will send Form I-20a which should be taken to the American Consul in the student’s area to arrange for passport and visa.

Registration

Formal registration takes place at the beginning of each semester. Students will be sent registration instructions and appointments several weeks prior to the registration dates.

Registration is not completed until tuition and fees have been paid. Registration is considered late and the late registration fee is charged if not completed before the beginning of classes for the semester.
EXPENSES AND FINANCIAL AIDS

Expenses

The cost of attending Dordt College is kept as reasonable as possible. Students pay in tuition only a part of the cost of their education. Each student receives the benefit of finances obtained from classical quotas, denominational church offerings, church society contributions, and gifts from individuals.

Tuition

Tuition is $3400.00 for the year and $1700.00 for a semester.

Students whose parents are members of the Christian Reformed Church and, who thus, contribute regularly to the support of Dordt College, will be granted an institutional grant-in-aid. The amount of the grant-in-aid is determined by the distance of the mailing address of the student’s home from Dordt College.

Students whose parents are members of a supporting non-Christian Reformed church will be granted an institutional grant-in-aid based on the local zone rate (within 20 miles).

Married students will have their tuition determined by the location of their former residence. Two semester of continuous local residence will change the tuition status unless the married student can show that he regularly returns to his former residence for gainful employment during the summer months.
Grants-in-aid will be awarded as follows:

<table>
<thead>
<tr>
<th>Distance from Dordt</th>
<th>Per Semester</th>
<th>Per Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Within 20 miles</td>
<td>$125.00</td>
<td>$250.00</td>
</tr>
<tr>
<td>From 20 to 300 miles</td>
<td>$140.00</td>
<td>$280.00</td>
</tr>
<tr>
<td>From 300 to 1000 miles</td>
<td>$170.00</td>
<td>$340.00</td>
</tr>
<tr>
<td>Over 1000 miles</td>
<td>$200.00</td>
<td>$400.00</td>
</tr>
</tbody>
</table>

In addition, a special reduction of $20.00 per semester per student is granted when two or more full time students enroll from one family. An exception to this reduction is when a student marries. After marriage, the student becomes a new and independent family.

The tuition rate for part-time students is $130.00 per semester hour, with a $10.00 per semester hour institutional grant-in-aid for those who are members of the Christian Reformed Church.

**Room and Board**

<table>
<thead>
<tr>
<th><em>Dormitory Room</em></th>
<th>Per Semester</th>
<th>Per Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dormitory linen laundry</td>
<td>12.00</td>
<td>24.00</td>
</tr>
<tr>
<td>Dormitory telephone charge</td>
<td>6.00</td>
<td>12.00</td>
</tr>
<tr>
<td><em>Residence Halls</em></td>
<td>275.00</td>
<td>550.00</td>
</tr>
<tr>
<td>Residence Halls linen laundry</td>
<td>12.00</td>
<td>24.00</td>
</tr>
<tr>
<td><em>College Approved Housing</em></td>
<td>275.00</td>
<td>550.00</td>
</tr>
<tr>
<td><strong>College Approved Housing with Housekeeping</strong></td>
<td>320.00</td>
<td>640.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Board-Dining Hall</th>
<th>Per Semester</th>
<th>Per Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Meals (21)</td>
<td>430.00</td>
<td>860.00</td>
</tr>
<tr>
<td>Five Days (15)</td>
<td>405.00</td>
<td>810.00</td>
</tr>
</tbody>
</table>

*Students in all private or college housing will pay $290.00 for their room the first semester and $260.00 for the second semester. Students entering college housing the second semester will pay $275.00 for their room.

**Students in all college approved housing with housekeeping will pay $335.00 for their room the first semester and $305.00 for the second semester. Students entering college housing with housekeeping the second semester will pay $320.00 for their room.

**Fees**

<table>
<thead>
<tr>
<th>Matriculation Fee (payable once)</th>
<th>$10.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Late Registration</td>
<td>10.00</td>
</tr>
<tr>
<td>Late Payment Fee (per week)</td>
<td>2.00</td>
</tr>
<tr>
<td>Transcript Fee</td>
<td>1.00</td>
</tr>
<tr>
<td>Graduation Fee</td>
<td>10.00</td>
</tr>
<tr>
<td>Placement Fee</td>
<td>10.00</td>
</tr>
<tr>
<td>Student Teaching (per hour)</td>
<td>9.00</td>
</tr>
</tbody>
</table>

**Music Fees**

| Individual lessons per semester for music majors | 85.00 |
| Individual lessons per semester for non-music majors | 100.00 |
| Group lessons per semester                       | 55.00 |
(There is no refund on music lesson fees after the second week of classes.)

Art Fees—
For the following classes  
Art 216-220  
Art 228-320  
Art 328  
Art 330  ..................  15.00

**Student Medical Insurance**

A hospital-medical-insurance policy is available to all full-time students. Participation in this program is on a voluntary basis. The cost of the policy for singles is $56.00 for the twelve month period from August 20 to August 20. Plans are also available for married couples and families. The fee is payable at the time of registration for the first semester.

**Payment of Accounts**

Charges for tuition, fees, room and board are due and payable at the beginning of each semester at the time of registration. Those who are unable to make full payment at that time may pay one-half at the time of registration and pay the balance due six weeks after registration. The exact dates will be designated by the Business Office at the beginning of each semester.

All financial accounts must be paid in full before transcripts will be released.

**Refunds**

Refunds will be made by the Business Office only upon receipt of a request for refund approved by the Registrar. Refunds will be based on the date on which the Registrar signs the refunds request and will be made as follows:

**Tuition**

<table>
<thead>
<tr>
<th>Withdrawal during</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>the first week</td>
<td>90%</td>
</tr>
<tr>
<td>the second week</td>
<td>70%</td>
</tr>
<tr>
<td>the third week</td>
<td>60%</td>
</tr>
<tr>
<td>the fourth week</td>
<td>50%</td>
</tr>
<tr>
<td>the fifth week</td>
<td>40%</td>
</tr>
<tr>
<td>the sixth week</td>
<td>30%</td>
</tr>
<tr>
<td>the seventh week</td>
<td>20%</td>
</tr>
<tr>
<td>the eighth week</td>
<td>10%</td>
</tr>
<tr>
<td>After eighth week</td>
<td>No refund</td>
</tr>
</tbody>
</table>

**Fees**

No refund is made on fees.

**Room and Board**

Room and board fees will be refunded on a pro rata basis.
Financial Aids

Student Financial Aid
In addition to the extensive scholarship program, which is based upon superior academic potential and performance, Dordt college has a complete program of financial assistance for all needy students. Types of financial assistance available include the grant-in-aid program, loan programs, the College Work-Study program, the Pell Grant program, the Educational Opportunity Grant program, and other special programs outlined below.

Limited finances need not prevent promising students from coming to Dordt College. Generally, qualified students' needs can be met through a Financial Aid Package which includes several types of aid. Any student who wishes to apply for financial assistance may do so by writing to the Director of Financial Aid after he has been accepted for admission to the college.

All applicants for financial aid will be required to submit the “Financial Aid Form” (FAF) of the College Scholarship Service or “Family Financial Statement” (FFS) of the American College Testing Program, and an “Application for Financial Aid” of Dordt College. The necessary forms may be obtained by writing to the Director of Financial Aid, Dordt College.

Pell Grants
The Pell Grant Program (formerly the Basic Educational Opportunity Grant) was authorized by the Education Amendments of 1972.

This program provides for the payment of Pell Grant awards to students attending eligible institutions of higher education. The maximum grant eligibility for each student is presently $1750.00. The application forms may be obtained from the high school or the college financial aid office.

Supplemental Educational Opportunity Grants
The purpose of this program is to provide non-repayable grants to students who, because of exceptional financial need on the part of their family, would be unable to attend college without such assistance.

Any student who is a citizen of the United States and has been admitted to Dordt College on a full-time basis is eligible to apply for such a grant. Grants will range from $200.00 to $2000.00 per year. This grant is renewable each year up to four years as long as the student continues to make satisfactory progress and his financial situation does not change.

National Direct Student Loans
This program provides long term loans to students in good standing who have been accepted for enrollment in a full-time course of study and are citizens of the U.S.

Students are eligible to borrow a cumulative amount of $3000.00 for the first two years and $6000.00 for the bachelors degree. No interest is charged while the student is in college. The loan may be repaid over a period of 10 years with a minimum repayment of $30.00 per month required. Interest is at the rate of 4% per year.
Repayment may be deferred while a borrower is serving in the Armed Forces, with the Peace Corps, or VISTA. Repayment is also deferred for as long as a borrower is enrolled at an institution of higher education and is carrying at least a half-time academic work load.

The primary and most essential condition of an applicant's eligibility for a National Direct Student Loan is that he is in need of the requested loan to pursue his course of study during the period for which the application is made.

**College Work Study Program**

Under Title I-C of the Economic Opportunity Act of 1964 Dordt College participates in the Work-Study Program which creates part-time job opportunities for students from low-income families. These jobs range from five to fifteen hours per week.

Students qualify for participation in the Work-Study Program if they are:

- a member of a low income family.
- in need of financial aid as shown by Parents' Confidential Statement or Financial Aid Form.
- capable of doing good academic work in college.
- able to meet job qualifications.
- accepted for admission as a full-time student in good standing.

Students with required skills and experiences may qualify for jobs in the following fields: clerical assistant, library assistant, typist, custodial work, instructional assistant, kitchen help, and several off-campus positions.

**Guaranteed Loan Program**

Many states participate in the Federally Insured Loan Program which was created under the provisions of the Higher Education Act of 1965 to provide financial assistance for students from middle or upper income families. This program is designed to assist the student who cannot qualify for other types of financial aid, as well as to supplement other aid programs.

An undergraduate may borrow up to $2500.00 per year at 9% interest with a total limit of $12,500.00. Students who qualify may receive interest-free loans which start bearing interest six months after his course of study has ceased.

Repayments begin six months after the student has ceased his course of study. The normal repayment period is five to ten years with a minimum repayment of $30.00 per month.

Some states elect not to participate in the federal program since they have their own Guaranteed Loan Programs. Residents of these states should contact their state's Higher Education Commission for the proper forms and instructions needed to apply for a guaranteed loan.

Guaranteed loans are made through the student's hometown bank and must be approved by the college. All repayments are arranged with and made directly to the lending bank.
Special Programs

CANADA STUDENT LOAN PLAN

The provincial governments have loan programs which may be used by Dordt students. Information and application forms may be secured by writing to the Department of Education of the province listed below:

**ALBERTA**

<table>
<thead>
<tr>
<th>Students</th>
<th>Department of Advanced Education &amp; Manpower</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finance Board</td>
<td>1100 Park Square</td>
</tr>
<tr>
<td></td>
<td>10001 Bellamy Hill Road</td>
</tr>
<tr>
<td></td>
<td>Edmonton, Alberta</td>
</tr>
<tr>
<td></td>
<td>T5J 3B6</td>
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**BRITISH COLUMBIA**

<table>
<thead>
<tr>
<th>Student Services Branch</th>
<th>Ministry of Education Sciences and Technology</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>835 Humboldt Street, Room 115</td>
</tr>
<tr>
<td></td>
<td>Victoria, British Columbia</td>
</tr>
<tr>
<td></td>
<td>V8W 2M4</td>
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**MANITOBA**

<table>
<thead>
<tr>
<th>Student Aid Branch</th>
<th>Department of Education</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Box 6 - 693 Taylor Avenue</td>
</tr>
<tr>
<td></td>
<td>Winnipeg, Manitoba</td>
</tr>
<tr>
<td></td>
<td>R3M 3T9</td>
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**NEW BRUNSWICK**

<table>
<thead>
<tr>
<th>Student Aid Division</th>
<th>Department of Youth Recreation and Cultural Resources</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>P.O. Box 6000</td>
</tr>
<tr>
<td></td>
<td>Fredericton, New Brunswick</td>
</tr>
<tr>
<td></td>
<td>E3B 5H1</td>
</tr>
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**NEWFOUNDLAND**

<table>
<thead>
<tr>
<th>Student Aid Division</th>
<th>Department of Education Prudential Assurance Building</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>49-55 Elizabeth Avenue</td>
</tr>
<tr>
<td></td>
<td>St. John’s, Newfoundland</td>
</tr>
<tr>
<td></td>
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**NORTHWEST TERRITORIES**

<table>
<thead>
<tr>
<th>Finance, Research and Planning</th>
<th>Department of Education Government of the Northwest Territories</th>
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</thead>
<tbody>
<tr>
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<td>Yellowknife</td>
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<tr>
<td></td>
<td>Northwest Territories</td>
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**NOVA SCOTIA**

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<tr>
<th>Student Aid Office</th>
<th>Department of Education</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>P.O. Box 578</td>
</tr>
<tr>
<td></td>
<td>Halifax, Nova Scotia</td>
</tr>
<tr>
<td></td>
<td>B3J 2S9</td>
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**ONTARIO**

<table>
<thead>
<tr>
<th>Student Awards Branch</th>
<th>Ministry of Colleges and Universities</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Mowat Block, Queen’s Park</td>
</tr>
<tr>
<td></td>
<td>Toronto, Ontario</td>
</tr>
<tr>
<td></td>
<td>M7A 2B4</td>
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**SASKATCHEWAN**

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<tr>
<th>Student Services Branch</th>
<th>Department of Continuing Education</th>
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<tr>
<td></td>
<td>1855 Victoria Avenue</td>
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<tr>
<td></td>
<td>Regina, Saskatchewan</td>
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<tr>
<td></td>
<td>S4P 3V5</td>
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**PRINCE EDWARD ISLAND**

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<tr>
<th>Student Aid Division</th>
<th>Department of Education</th>
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<tr>
<td></td>
<td>P.O. Box 2000</td>
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<tr>
<td></td>
<td>Charlottetown</td>
</tr>
<tr>
<td></td>
<td>Prince Edward Island</td>
</tr>
<tr>
<td></td>
<td>C1A 7N8</td>
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**QUEBEC**

<table>
<thead>
<tr>
<th>Student Aid Service</th>
<th>Department of Education Government of the province of Quebec</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Quebec City, Quebec</td>
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<tr>
<td></td>
<td>G1A 1H2</td>
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</tbody>
</table>

**YUKON TERRITORY**

<table>
<thead>
<tr>
<th>The Students Financial Assistance Committee</th>
<th>Department of Education Government of the Yukon</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Box 2703</td>
</tr>
<tr>
<td></td>
<td>Whitehorse, Yukon Territory</td>
</tr>
<tr>
<td></td>
<td>Y1A 2C6</td>
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</tbody>
</table>

DORDT CANADIAN GRANT AND LOAN PROGRAM

Dordt College has established a Grant and Loan Program for Canadian students who have a demonstrated need.

Grants will range from $100.00 to $1000.00 per year for each of the years the student's need arises. Application for this program is made by completing the Financial Aid Form (FAF) and sending it to the College Scholarship Service, Box 2700, Princeton, New Jersey. Forms may be obtained from the Financial Aid Office at the college.

Loans will range from $200.00 to $1000.00 per year for those students who qualify by completing the Financial Aid Form (FAF). No interest will be charged while the student is attending Dordt College. A repayment schedule and interest of 9% will begin six months after the student leaves and payments will be on a bi-monthly basis.
VETERANS' EDUCATION BENEFITS

Dordt College is approved to offer education to students who are eligible for benefits under the terms of the Veterans' Readjustment Act (Public Law 90-77) or under the War Orphans Bill (Public Law 634). Eligible students should write to their regional Veterans' Administration Office to obtain the application information.

SOCIAL SECURITY BENEFITS

Children of retired, disabled, or deceased workers are eligible for social security benefits until the age of twenty-two if they are unmarried and are full-time students. For information on Social Security benefits, the student should visit his local Social Security office.

VOCATIONAL REHABILITATION BENEFITS

Students who, by reason of physical disabilities are eligible for benefits under vocational rehabilitation programs should write to the Division of Rehabilitation Education and Service in their state.

STATE OF IOWA SCHOLARSHIP PROGRAM

The 1965 session of the Iowa Legislature established a state scholarship program for the benefit of Iowa residents attending colleges within the state. These scholarships are based on the financial need and the academic ability of the student and may be used only for tuition and mandatory fees. Application forms and information regarding eligibility for the program are available from Iowa high school counselors.

STATE OF IOWA TUITION GRANT PROGRAM

The 1969 session of the Iowa Legislature established a state tuition grant program for the benefit of Iowa residents attending private colleges within the state. These grants are based on financial need and may be used only for tuition and mandatory fees. Application forms and information regarding the program are available from Iowa high school counselors.

SCHOLARSHIP AND LOAN PROGRAMS — OTHER STATES

Several states have scholarships or loan programs which may be used at Dordt College. Information on such programs may be obtained from high school counselors.
Scholarships and Grants

Conditions of Award

All scholarships are awarded for one year. One-half of the amount will be paid each semester.

Recipients of scholarships are expected to conduct themselves in harmony with the standards and ideals of Dordt College. They are also expected to maintain a cumulative grade point average of 2.00 or better. Failure to meet these standards will constitute grounds for immediate cancellation of awards.

No scholarship or grant will be given concurrently with another scholarship or grant awarded by the college.

Freshman Scholarships

Each year, Dordt College grants a number of general scholarships to entering freshmen. These scholarships are awarded on the basis of academic ability and are awarded automatically; no application need be made. Award winners are notified by the Director of Admissions.

The regulations for these scholarships are:
1. Graduates of approved Christian and public high schools may qualify for general freshman scholarships.
2. Scholarship applicants must:
   a. Meet entrance requirements as listed in the Dordt College Catalog.
   b. Have at least a "B" average in high school work.
   c. Submit the results of the ACT test.
3. The size of the scholarship will be determined on the basis of test scores and high school grade point averages as follows:
   ACT Composite 90-99%
   3.90-4.00 ......................................................... $300.00
   3.75-3.89 ......................................................... $250.00
   3.50-3.74 ......................................................... $200.00
   3.25-3.49 ......................................................... $150.00
   ACT Composite 80-89%
   3.90-4.00 ......................................................... $225.00
   3.75-3.89 ......................................................... $175.00
   3.50-3.74 ......................................................... $150.00
   3.25-3.49 ......................................................... $100.00
   ACT Composite 65-79%
   3.90-4.00 ......................................................... $125.00
   3.75-3.89 ......................................................... $100.00
   3.50-3.74 ......................................................... $ 75.00

Upperclass Scholarships

Dordt College grants scholarships to sophomores, juniors, and seniors whose grade point average indicates superior scholarships. These awards are made automatically.
The regulations for the scholarships are:

1. Students who have completed college work at Dordt or at another accredited college may qualify for the general scholarship as follows:
   - 28 semester hours: Sophomore scholarship
   - 58 semester hours: Junior scholarship
   - 88 semester hours: Senior scholarship

2. Scholarship applicants must pursue an approved course of studies leading to the bachelor of arts degree.

3. Scholarships will be granted to all on the basis of cumulative grade point average as follows:
   - 3.90-4.00: $250.00
   - 3.75-3.89: $200.00
   - 3.50-3.74: $150.00

**The Minnie Julia Dahm Scholarship for Pre-Medical Students**

This $300.00 scholarship is awarded every year to a Pre-Medical student selected by The Academic Policies Committee. All Pre-Medical students are eligible to apply but preference must be given to applications from students who will be entering their junior year at Dordt. Criteria for being selected include: 1) noteworthy academic performance (a minimum grade point average of 3.00) and 2) demonstration of understanding and application of Christian principles.

**The Minnie Julia Dahm Scholarship for Medical Technology Students**

This is a yearly scholarship for Medical Technology students at Dordt College. The yearly award is $300.00. All Medical Technology students are eligible to apply but preference must be given to application from students who will be entering their junior year at Dordt. Recipients are selected by The Academic Policies Committee. Criteria for being selected include: 1) noteworthy academic performance (a minimum grade point average of 3.00) and 2) demonstration of understanding and application of Christian principles.

**Dahm Memorial Music Scholarships**

Three scholarships of $125.00 each are awarded annually to a sophomore, junior and senior. Recipients are selected by the Music Department based on music scholarship and contribution to the music program at Dordt. These scholarships are awarded in the memory of the late Joe J. Dahm of Pella, Iowa.

**National Merit Scholarships**

Dordt College offers a full tuition scholarship for the freshman year to each high school graduate who wins a National Merit Scholarship Corporation Certificate of Merit. The student must present a copy of the certificate as application for the scholarship. Winners of Letters of Commendation are not eligible.

**Music Grants**

Each year a number of vocal and instrumental music grants are available in the form of one to two semesters of private study. Students are selected on the basis of:

1. Information submitted on the Music Grant Application Form.
2. Recommendations from the applicant's teacher of voice or instrument and from his high school music teacher.
3. A tape recording of a performance of a work which shows the level of competence of the applicant.

For application blanks and for instruction on application procedures, write to Music Grants, Dordt College, Sioux Center, Iowa 51250. All materials must be submitted by April 29.

The R. J. Dykstra Scholarship for Business Administration Students

The R. J. Dykstra Scholarship is awarded to a full-time junior or senior student at Dordt College. This $300.00 yearly scholarship is awarded to a Business Administration major. Criteria for this award are commitment, communication, and academic performance.

The Martin Seven Awards

Five prizes are awarded annually in the following areas: 1) English, 2) Speech, 3) Physical Education, 4) Classical Languages, 5) Mathematics. The recipients shall be selected by the department responsible for the particular discipline. The amount of the awards will vary as the endowment income fluctuates.

Ringerwole Organ Scholarship

The winner of this annual scholarship receives two semesters of organ lessons at Dordt College. Competition for the scholarship is held in late April. Each competitor must play a selected list of works for a jury examination committee which selects the winner.

Agricultural Scholarships

These scholarships seek to encourage and assist students in agriculture to prepare for a career with relief agencies working to alleviate poverty, hunger and human suffering. This award is given to individuals in an effort to promote agricultural development in countries other than the United States and Canada. Four scholarships will be awarded: $500.00 freshman, $1000.00 sophomore, $1500.00 junior, and $2000.00 senior. Applicants will be evaluated on the basis of academic performance, references, Christian character, vocational interests, and need. For applications write to the Dordt Agricultural Department, Dordt College, Sioux Center, Iowa 51250. Applications must be in by June 1.

Student Leadership Scholarship

The scholarship will be given to a sophomore or a junior in the spring of the academic year and will be used to meet tuition expenses for the following year. Applicants must be full-time students during the entire year in which the scholarship is granted. Criteria for being accepted includes overall active Christian leadership at Dordt College in groups such as Student Forum, volunteer organizations, resident assistants, and other campus activities.
THE ACADEMIC PROGRAM

Graduation Requirements

The programs of study presented on the following pages specifically note the current requirements for graduation. Each student is urged to take this into account in planning his course of study.

Bachelor of Arts Degree

Courses
A minimum of 40 courses is required for graduation.

Grade Average
A grade point average of 2.00 or better is required for graduation.

Residence
To graduate, a student must present a minimum of ten courses earned at Dordt College. If only the minimum number of Dordt courses is presented, they must be earned in full-time residence during the final academic year.

Students, who have completed a minimum of thirty courses at Dordt College, may request special permission to complete up to ten of their final courses at another college. Those who have completed a minimum of twenty courses at Dordt College may request special permission to complete up to five of their final courses at another college.

Distribution Requirements
1. General Education (12 courses)
   - English 101 ......................................................... 1
   - English 200 ......................................................... 1
   - History 101 .......................................................... 1
   - History 102 .......................................................... 1
   - Theology 101 ......................................................... 1
   - Theology 201 or 202 or Philosophy 201 ......................... 1
   - Natural Science Electives ........................................ 2
     Natural science electives must be selected from one or more of the following departments: astronomy, biology, chemistry, physics, and physical science.
   - Social Science Electives ......................................... 2
     Social science electives must be selected from two of the following departments: business administration—economics (except business administration 201-202, 301-302), political science, psychology, and sociology.
   - Humanities Elective ............................................... 1
     The Humanities elective must be selected from Art 101, 207, 208; Theatre Arts 207, 208; English 201, 202, 207, 208, 221, 222; Foreign Language 202, 207, 208; Music 108, 207, 208, 308.
   - Language Requirement ............................................ 1
     The Language requirement may be met by taking a Foreign Language 201 course or Linguistics 201.
1. Prerequisites for the above courses:
   a. For Foreign Language 201 — Foreign Language 101 and 102 or two years of high school work in the same language. (For Latin 201 the prerequisite is Latin 101 or two years of high school Latin.)
   b. For Linguistics 201 — two years of high school work in one foreign language or Foreign Language 101 or 102. Open to freshmen with permission of the language department.

2. If a Foreign Language 101 or 102 course is taken as prerequisite to one of the language requirements, the courses may be applied to the general electives.

3. The foreign language requirement is considered met with four years of high school foreign language or with three years of high school foreign language and a good performance on a college administered placement test.

Mathematics Proficiency
Mathematics proficiency may be demonstrated by:
1. Four semesters of high school mathematics with a grade of “B” or better in each course.
2. A percentile ranking of 50 or higher on the mathematics section of the ACT test.
3. The completion of any mathematics course at the college level. If a college course is taken to meet the requirement, it may be applied to the general electives.

Note: A maximum of two courses in the major field may also be used to meet general requirements — the number of courses required in the Elective/Professional category will be increased by the number of “over-lap” courses.

2. Major (10-15 courses)
   A. B. General ................................................................. 10-15
   As listed for each department in the “Course of Instruction” section of the catalog.
   A. B. Secondary Education .................................................. 10-18
   Requirements for Teaching Major leading to certification and endorsement to teach in a major field are listed for each department in the “Course of Instruction” section of the catalog.
   Note: Students who wish to be endorsed to teach in an additional subject area may elect to take a Teaching Minor in another department. Requirements for such minors are also listed in the “Course of Instruction” section of the catalog.
   A. B. Elementary Education ............................................... 15
   Requirements for the elementary teaching major leading to certification and endorsement may be found in the Teacher Education Program section on pages 36-37 of the catalog.

3. Elective/Professional .................................................... 13-18
   A. B. General
   Electives ............................................................................. 13-18
A. B. Elementary Education
1. Teaching Minors ................................................................. 6-8
   As listed on pages 57-59 of the catalog.
2. Electives ................................................................. 5-7

A. B. Secondary Education
1. Professional ................................................................. 8
   Professional requirements for secondary education are listed on pages 36-37 of
   the catalog.
2. Electives ................................................................. 5-10

4. Physical Education
   Each student must complete Physical Education 10 and three semesters of physical
   education activities courses.
Academic Policies

Class Attendance
All students are expected to attend all class periods and all laboratory periods. Penalties for absence from class are left to the individual instructors. The instructor may lower a student's mark if there have been excessive unexcused absences. No allowed number of skips is permitted.

Credits
All credit at Dordt College is given in semester hours. Each semester hour requires one period per week of class work and approximately two hours per week of outside preparation.

Student Classification
Classification is made at the beginning of the academic year and is determined by the number of semester hours of credit earned:

- Sophomore ............................................•.......... 8 courses
- Junior ........................................................... 18 courses
- Senior ...................................................... 28 courses

Student Load
The normal student load is five courses per semester. The minimum load for full-time student classification is four courses (twelve semester hours) per semester.

Under the conditions listed below, students may take more than five courses per semester. However, the decision to do so should be considered very carefully and should be made in consultation with the academic adviser. The following policies will govern overloads:

a. Within the definition of a normal load, a student may take up two approved one-hour courses in addition to the five-course load.
b. No freshman may register for an overload in his first semester, and he may do so in the second semester only if he has a grade point average of 3.00 or better and has written permission from the Associate Academic Dean.
c. A first semester freshman who is accepted on academic probation will not be allowed to take more than a four-course load.
d. Sophomores, juniors, and seniors may register for a one-course overload if they have a cumulative grade point average of 2.00 or better.
e. Students who wish to take more than one overload course per semester must have a cumulative grade point average of 3.00 or better and have written approval from the Associate Academic Dean.
f. IN A STUDENT'S FOUR-YEAR PROGRAM, NO MORE THAN TWO OVERLOAD COURSES WILL BE APPLIED TO THE GRADUATION REQUIREMENT OF 40 COURSES.

Class Visitor and Audit Policies
1. Full-time Students — will be allowed class visitor privileges with the permission of the instructor and the registrar if there is room in the class.
2. Part-time Students — will not be granted class visitor privileges. They will be permitted to audit classes at $\frac{1}{2}$ the regular tuition rate.
Dropping Courses
Changes in registration must be completed within one week after the opening date of each semester. Permission to change courses must be obtained from the Registrar of the College.

No course may be dropped without the permission of the Registrar of the College. Courses dropped without permission are recorded as "F". Courses dropped after the seventh day of classes of the semester are recorded as "WP" — withdrawn passing — if the student has a passing grade in the course when it is dropped and "WF" — withdrawn failing — if the student is failing when the course is dropped. All courses dropped after the tenth week of the semester will be recorded as "F".

Repeating Courses
A student may repeat a course regardless of the grade earned. The initial grade will be ruled through and will not be used in calculating the grade point average. Only the last course will be listed for credit and the last grade will be used for calculating the grade point average.

Withdrawal From School
A student who wishes to withdraw from school should see the Counseling Center Coordinator to obtain the necessary withdrawal form and receive permission to leave school. The form must be signed by the Counseling Center Coordinator, Dean of Students, Director of Admissions, Assistant to the Vice President for Business, and returned to the office of the Registrar. Refunds are based upon the date of such approval. Students who withdraw without permission will have grades of "F" recorded for all courses.

Grading System
The following grading system is in effect at Dordt College:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Points Per Hour</th>
<th>Description</th>
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<tbody>
<tr>
<td>A</td>
<td>4</td>
<td>Exceptional</td>
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<tr>
<td>B</td>
<td>3</td>
<td>Good</td>
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<tr>
<td>C</td>
<td>2</td>
<td>Graduation Average</td>
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<tr>
<td>D</td>
<td>1</td>
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<tr>
<td>F</td>
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<tr>
<td>AU</td>
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Grade Point Average
College graduation requires that a student maintain a 2.00 grade point average. The grade point average is determined by dividing the total number of grade points by the total number of hours attempted.

A grade of "F" in a course will be computed in the student's grade point average (this refers to both regular courses and pass-fail courses); a student who withdraws from a course prior to the expiration of 10 weeks will not have the "WF" computed in his grade point average.
Enrollment in Other Schools

Students who are enrolled in Dordt College will not be permitted to take work for academic credit in the same semester in other schools without getting permission from the Vice President for Academic Affairs. In no case will students be permitted to carry a load greater than that stated in the catalog.

Pass-Fail Option

At Dordt College, students have the option of selecting courses on a pass-fail basis. This policy was adopted to provide more flexibility in program planning and to encourage students to explore many interests outside of their normal program without the worry of overload or about the effect of the course grade on his grade point average.

The following guidelines have been adopted to aid the students in the selection of P/F courses:

P/F courses may be taken by sophomores, juniors, and seniors. Sophomores and juniors may take one P/F course per semester. Seniors may take one P/F course per semester except in such cases where the second P/F course will be the sixth course. A total of six P/F courses may be applied to the 122 hours required for graduation.

The grade of “P” will be calculated for grade point average purposes as follows: Hours attempted = 0; Credits = 2, 3, 4, etc; Grade points = 0. Thus, a grade of “P” WILL HAVE NO EFFECT ON THE STUDENT’S GRADE POINT AVERAGE because the grade point average is determined by dividing the grade points by the hours attempted.

A grade of “F” will be calculated in the same way as an “F” under the normal grading system. Thus, a grade “F” WILL REDUCE THE STUDENT’S GRADE POINT AVERAGE.

Students who receive a “P” in a P/F course may not retake the course on a graded basis.

The various departments have the prerogative to identify courses which should not be P/F.

Students may register for P/F in elective courses only. Excluded, therefore, are:
1. All general education requirements.
2. All requirements for majors and teaching minors.
3. All requirements for teacher education programs.

Students will select the P/F option during the add/drop period at the beginning of the semester. Changes from A-F to P/F grading and from P/F to A-F grading may be made on forms supplied by the Registrar’s Office as follows:
1. P/F to A-F grading—anytime prior to last day of classes.
2. A-F to P/F grading—anytime during the first ten weeks of the semester.

Academic Standing

A student is expected to maintain a 2.00 grade point average for graduation. When the grade point average falls below 2.00, the student is given written warning of academic deficiency, or is placed on academic probation, or is dismissed for academic reasons. The seriousness of the deficiency will determine the action taken.

A student may be on academic probation for only one semester. If the student does not raise the grade point average above the academic probation classification, he will be required to receive special permission to register for further work at Dordt College. The
faculty Academic Policies Committee may recommend that the student be allowed to register on special academic probation or that the student be dismissed. The Committee decision is made on the basis of the circumstances in each individual case.

Students and parents are notified when students are placed on probation or dismissed for academic reasons.

A student dismissed for academic reasons may not apply for readmission before a lapse of one academic year.

Grade Reports
First semester mid-semester grades are reported to freshmen. These are not recorded on the permanent record but are for the purpose of indicating progress being made. Mid-semester reports are obtained from the student's faculty adviser.

Final grade reports are released by the Registrar's Office as soon as possible after the close of each semester.

Official Transcripts
One transcript is furnished free to each student. The fee for each additional transcript is $1.00, payable in advance. Requests for transcripts should be submitted well in advance of the time they are required by the student. Transcripts will not be made during the week of registration or at the time semester grades and reports are being processed.

A transcript will be released only if all accounts have been settled with the College. Transcripts are released only with the written permission of the student. They will not be sent to employers or other agencies without the permission of the student.

Official transcripts are not given directly to the student. All transcripts are sent directly to the school, employer, or agency specified by the student.
PROGRAMS OF STUDY

The four-year program at Dordt College offers studies in many different areas of learning and affords an opportunity to prepare for a wide variety of careers. The courses outlined in the following pages suggest many of the opportunities available at Dordt College.

Programs

The curriculum of Dordt College offers extensive opportunities for preparation in many areas. Career planning assistance will be given by qualified personnel in order for the student to select the courses which best fit his program after graduation or transfer.

The following is a list of the programs available at Dordt that a student may consider in planning his future vocation and area of service.

<table>
<thead>
<tr>
<th>Programs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elementary Education</td>
</tr>
<tr>
<td>Medical Technology</td>
</tr>
<tr>
<td>Pre-Dental</td>
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<tr>
<td>Pre-Legal</td>
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<tr>
<td>Pre-Medical</td>
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<tr>
<td>Pre-Nursing</td>
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<tr>
<td>Pre-Optometry</td>
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<tr>
<td>Pre-Pharmacy</td>
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<tr>
<td>Pre-Physical Therapy</td>
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<tr>
<td>Pre-Seminary</td>
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<tr>
<td>Pre-Veterinarian</td>
</tr>
<tr>
<td>Secondary Education</td>
</tr>
<tr>
<td>Secretarial Science (2-year)</td>
</tr>
</tbody>
</table>

MAJORS

<table>
<thead>
<tr>
<th>Majors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting</td>
</tr>
<tr>
<td>Agriculture</td>
</tr>
<tr>
<td>Agri-Business</td>
</tr>
<tr>
<td>Art</td>
</tr>
<tr>
<td>Astronomy/Physics</td>
</tr>
<tr>
<td>Biology</td>
</tr>
<tr>
<td>Business Administration</td>
</tr>
<tr>
<td>Business Education</td>
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<tr>
<td>Chemistry</td>
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<tr>
<td>Classical Languages</td>
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<tr>
<td>Communication</td>
</tr>
<tr>
<td>Dutch</td>
</tr>
<tr>
<td>Elementary Education</td>
</tr>
<tr>
<td>Engineering Science</td>
</tr>
<tr>
<td>English</td>
</tr>
<tr>
<td>German</td>
</tr>
<tr>
<td>History</td>
</tr>
<tr>
<td>Individual Studies</td>
</tr>
<tr>
<td>Mathematics</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
</tr>
<tr>
<td>Music</td>
</tr>
<tr>
<td>Natural Science</td>
</tr>
<tr>
<td>Philosophy</td>
</tr>
<tr>
<td>Physical Education</td>
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<tr>
<td>Physics</td>
</tr>
<tr>
<td>Political Science</td>
</tr>
<tr>
<td>Psychology</td>
</tr>
<tr>
<td>Social Science</td>
</tr>
<tr>
<td>Social Work</td>
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<tr>
<td>Sociology</td>
</tr>
<tr>
<td>Spanish</td>
</tr>
<tr>
<td>Speech</td>
</tr>
<tr>
<td>Theatre Arts</td>
</tr>
<tr>
<td>Theology</td>
</tr>
</tbody>
</table>
Individual Studies Program

Individual Studies Major
The Individual Studies Major will provide an opportunity for specially qualified students to plan a specific program in an area of study not yet formally developed by the college as a major. The Individual Studies Major is intended for a limited number of students who are broadly matured and possess special characteristics such as the ability to articulate clearly and specifically their goals; self-reliance and the ability to work independently; self-motivation; and the ability to carry a project to completion.

The Individual Studies Major is a major option within the graduation requirements for the A.B.—General degree. Since every general student has a large number of elective options beyond the already structured majors, an Individual Studies Major presupposes a scope of courses and program structuring which goes beyond what a student can normally accomplish within the elective course options. Therefore, the student must submit, in writing, a forty-course sequence which together make a unified program. It will be the student’s responsibility to specify why each course has been selected and to demonstrate how each course applied to the goal articulated for the Individual Studies Major. The forty-course sequence must include courses which meet the twelve-course general education requirement; a fifteen-course major program which will insure depth of understanding and performance in the special area selected; and, thirteen elective courses, each carefully selected to contribute to the special area of study.

Students who wish to plan an Individual Studies Major should see the Vice President for Academic Affairs to discuss the specific requirements and application procedures (minimum requirements are ten courses and a cumulative grade point average of 2.50 or better). The Vice President will assign a faculty member to assist the student in writing his proposal and to serve as faculty coordinator of the accepted program.

The Individual Studies Committee will review all proposals. The committee may approve, reject, or suggest modifications. The committee will also review Individual Studies Major programs periodically to evaluate the quality of work being done, the extent to which goals and requirements are being met, and the need for modifications of the original proposal. The committee has the right to terminate an Individual Studies Major at any time that it becomes apparent that the student is not qualified to continue or is not carrying out the program as originally approved.

Individual Studies Courses
Individual Studies 391, 392 courses are offered by many departments to provide properly qualified students the opportunity to do intensive work in a subject not normally included in the regular course offerings or to pursue in depth a topic encountered as part of previous studies. The Individual Studies courses allow for greater flexibility of program as well as greater responsibility for the student in the learning process. Within the individual studies concept are included such options as research, practicum, independent study, readings, and performance. It is understood that the burden of responsibility for learning will be on the student—it is not a tutorial program.

Students who wish to enroll in an Individual Studies course must complete a Course Proposal form which may be obtained from the Associate Academic Dean. In the written proposal the student will describe in some detail the object or goal of the study, the procedures to be followed, the materials to be used, a projected product or outcome,
and the method of evaluation. The proposal must be signed by the faculty project supervisor. Completed proposals must be returned to the Associate Academic Dean for approval by the deadline for adding courses. If the acceptability of an Individual Studies proposal is questioned, it will be brought to the Individual Studies Committee for final action.

If a proposed Individual Studies project is interdepartmental or falls within a department that does not have an Individual Studies option, the student may consult the Associate Academic Dean for permission to register for IND 391 or IND 392.

All 391, 392 Individual Studies Courses are governed by the following policies:
1. Only juniors and seniors will be allowed to take Individual Studies courses except, in unusual cases, others might be allowed to do so on petition to the Academic Policies Committee.
2. A student must have a cumulative grade point average of 2.25.
3. Not more than one Individual Studies course may be taken in a semester. No more than three Individual Studies courses may be applied to the forty-course graduation requirement.
4. Normally, an Individual Studies course should be completed in one semester, but, with advance notice, the course may be spread over the first and second semesters of the same year.
5. Individual Studies courses are open only to students who have had extensive previous course-work in the department.

391 Individual Studies (3)
Individual study of a topic which is interdepartmental or which falls within a department which does not have an individual study option. With permission of the Associate Academic Dean.

392 Individual Studies (3)
Same as Individual Studies 391.

SOCIAL WORK PROGRAM

The Social Work Program is built upon a strong liberal arts base and foundational courses in the social sciences. The program is designed to equip students with the requisite knowledge and skills for entry into social service positions as well as entrance into graduate programs. The Social Work Program is of such a nature that admission to the program and completion of the major will require a formal two-part application process.

Admission to the Program

The first part is an application for admission to the program. The application should be filed during the second semester of the sophomore year prior to the spring break. Forms may be obtained from the chairperson of the Social Work Program Committee.

Completed application forms are reviewed by the Social Work Program Committee, and admission to the program is based on the following criteria:

1. A minimum cumulative grade point average of 2.20 with a minimum of 13 courses completed for credit.
2. A written statement of personal interest which indicates an ability to communicate effectively and a commitment to social service.
3. Acceptable physical and psychological health.
Upon review of the application, the committee will take one of the following actions:
1. Accepted - meets all criteria.
2. Accepted conditionally - some deficiencies but remediable.
3. Rejected - deficiencies beyond foreseeable remediation.
The student will receive written notice of status.

Admission to the Professional Semester

The second part of the application process is an application to participate in the professional semester which includes an intensive field work experience. This application should be filed during the second semester of the junior year, prior to the spring break. Forms may be obtained from the chairperson of the Social Work Program Committee.

The application will be reviewed by the Social Work Program Committee, and admission to the professional semester will be based on the student meeting the following criteria:
1. A minimum cumulative grade point average of 2.50.
2. Completion of the required courses as listed under the major: Social Work - page 87 of the catalog.
3. Senior status (anticipated).
4. An acceptable recommendation from a faculty member.
5. A written statement which demonstrates acceptable communication skills and a mature and knowledgeable interest in social work.
6. An interview which demonstrates the student’s suitability to social work in terms of interest, knowledge, maturity, personality, and physical and mental health.

Upon review of the application, the committee will take one of the following actions:
1. Accepted - meets all criteria.
2. Accepted conditionally - some deficiencies but remediable.
3. Rejected - deficiencies beyond foreseeable remediation.
The student will receive written notice of status.

The Social Work Program Committee reserves the right to refuse admission to, or continuation in, the program to any student who does not maintain a 2.50 grade point average, or, who in the judgement of the committee, has physical, mental, or personality handicaps which would be detrimental to the student and/or to the welfare of the clients to be served.
# Course Requirements

## Social Work Program

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Education</strong></td>
<td>12 courses</td>
</tr>
<tr>
<td>These courses are the same for all students. See page 87 of the catalog.</td>
<td></td>
</tr>
<tr>
<td><strong>Major</strong></td>
<td>17 courses</td>
</tr>
<tr>
<td>Sociology 202</td>
<td>Fr.</td>
</tr>
<tr>
<td>Sociology 225</td>
<td>Soph.</td>
</tr>
<tr>
<td>Sociology 226</td>
<td>Soph.</td>
</tr>
<tr>
<td>Psychology 210</td>
<td>Soph.</td>
</tr>
<tr>
<td>Elective (select from sociology, psychology, economics, political science)</td>
<td>Soph.</td>
</tr>
<tr>
<td>Elective (select from sociology, psychology, economics, political science)</td>
<td>Soph.</td>
</tr>
<tr>
<td>Sociology 207</td>
<td>Jr.</td>
</tr>
<tr>
<td>Sociology 303</td>
<td>Jr.</td>
</tr>
<tr>
<td>Sociology 310</td>
<td>Jr.</td>
</tr>
<tr>
<td>Psychology 205</td>
<td>Jr.</td>
</tr>
<tr>
<td>Sociology 304</td>
<td>Sr.</td>
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<tr>
<td>Sociology 312</td>
<td>Sr.</td>
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<tr>
<td>Sociology 315</td>
<td>Sr.</td>
</tr>
<tr>
<td>Sociology 325</td>
<td>Sr.</td>
</tr>
<tr>
<td>Sociology 374 (counts as three courses)</td>
<td>Sr.</td>
</tr>
<tr>
<td><strong>NOTE:</strong> Sociology 374 (Field Work) must be taken at Dordt College to receive graduation credit towards the Social Work Major.</td>
<td></td>
</tr>
</tbody>
</table>

## Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>11 courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td></td>
</tr>
<tr>
<td>Each student must complete Physical Education 10 and three semesters of physical education activities courses.</td>
<td></td>
</tr>
</tbody>
</table>
TEACHER EDUCATION PROGRAM

To be eligible for recommendation for certification in teaching, students must be admitted to the Teacher Education Program and must complete the requirements for the Bachelor of Arts degree either in elementary education or in secondary education.

Admission to the Program

Formal application for admission to the Teacher Education Program should be filed during the sophomore year after the student has completed a minimum of 13 courses for credit. Application forms are distributed near the end of the first semester in the Education 201 classes. Forms also may be obtained from the Coordinator of the Education Department.

Completed applications are reviewed by the Teacher Education Committee. Criteria for admission to the Teaching Education Program are:

1. A minimum cumulative grade point average of 2.20.
2. A recommendation following an interview with a member of the Education Department.
3. A recommendation from a faculty member of the applicant's choice.
4. Ability to communicate effectively and correctly.
5. Acceptable physical and psychological health.
6. Acceptable personal character and commitment to teaching.

The Teacher Education Committee reserves the right to refuse admission to any student who does not demonstrate the ethical, moral, and spiritual standards which may be expected of a Christian teacher.

After considering a student's application for admission to the Teacher Education Program, the Teacher Education Committee will take one of the following actions:

1. Accept for admission
   a. Unconditional: the Committee judges that there are no recognizable deficiencies in any of the criteria for admission.
   b. Conditional: the Committee judges that, although there is some deficiency, the student is able to remediate the deficiency and that conditional status in the program is appropriate.

2. Reject
The Committee judges that the applicant's deficiencies warrant rejection. No student is rejected without having met with the Chairperson of the Teacher Education Committee who will discuss the reasons for rejection of the application. The basis for rejection is given to the student in writing.
Reconsideration for admission can be given one semester after the student's application has been rejected. The student, however, must initiate reconsideration procedures by contacting the Chairperson of the Teacher Education Committee.

Retention in the Teacher Education Program

The records of students in the Teacher Education Program are reviewed after each semester's work is completed. Consideration is given to each student's performance in professional courses, professional experiences, and in the teaching minors, majors and/or approval areas. Both elementary and secondary education students must maintain cumulative grade point averages of 2.20.
If a student's grade point average falls below 2.20 or if the student does not continue to meet the standards for admission to the program, the Teacher Education Committee may place the student in a conditional status or dismiss the student from the Teacher Education Program. No student is placed in a conditional status or dismissed from the program without having met with the Chairperson or a designated member of the Teacher Education Committee who presents the reasons for such action to the student in writing.

Consideration for re-admission can be given one semester after dismissal. The student, however, must initiate re-admission procedures by contacting the Chairperson of the Teacher Education Committee.

**Admission to Student Teaching**

Student teaching is required of all students preparing for certification. Application for student teaching must be made early in the semester preceding the one in which the student teaching is to be done. To qualify for student teaching, a student must meet the requirements listed below:

1. Elementary education students.
   a. Completion of a minimum of 28 courses for credit applicable to an approved course of studies in teacher education.
   b. Admission to the Teacher Education Program.
   c. Completion of Education 201, 202, 221, 215, 322, 323.
   d. Achievement of a minimum cumulative grade point average of 2.20.
   e. Recommendation on basis of performance in professional courses, professional experiences, in approval areas and teaching minors.

2. Secondary education students.
   a. Completion of a minimum of 28 courses for credit applicable to an approved course of studies in teacher education.
   b. Admission to the Teacher Education Program.
   c. Completion of Education 201, 202, 215, and department methods.
   d. Achievement of a minimum cumulative grade point average of 2.20.
   e. Recommendation on basis of performance in professional courses, professional experiences in the major, and other approval areas.

3. Students intending to complete a program for a second endorsement requiring a second student teaching assignment within the four-year college program must have a minimum grade point average of 3.00 to qualify for the second assignment.

Application for student teaching must be approved by the Teacher Education Committee.

Student teaching must be taken at Dordt College to receive graduation credit and recommendation for certification.

**Requirements for Institutional Recommendation for Certification**

To qualify for certification, a student must receive the recommendation of the Teacher Education Committee and must meet all requirements for the A.B. degree. To receive the recommendation of the Committee, elementary and secondary students must meet the following requirements:

1. Admission to the Teacher Education Program.
2. Completion of an approved course of studies in teacher education.
3. Achievement of a minimum cumulative grade point average of 2.20.
4. Successful completion of a student teaching experience.
Course Requirements for Teacher Education Degrees

The requirements for degrees in education are listed below with the professional education courses in their recommended sequences.

A. B. — Secondary Education

General Education .................................................................................. 12 courses
These courses are the same for all students. See pages 24-26 of the catalog.

Professional Education ......................................................................... 8 courses
Education 201 Introduction to Education Soph.
Education 202 Practicum in Education Soph.
Education 215 Educational Psychology Jr.
Methods Sr.
Education 364 Issues in Education Sr.
Education 374 Student Teaching—Sec. Sr.

NOTE:
1. Education 374 is counted as three courses.
2. Iowa teachers need History 201, or 202, or Political Science 212 to be re-certified.
3. A human relations course or fifteen units of human relations credit is a professional requirement for Iowa certification.

Major ........................................................................................................ 10-15 courses
The teaching majors, minors, and approval areas are identified in the alphabetical list of course descriptions of the catalog.

Electives ................................................................................................... 5-10 courses
Students may use their electives to earn a Secondary Teaching Minor (with its approval area). THE SECONDARY MINOR IS OPTIONAL.

Physical Education
Each student must complete Physical Education 10 and three semesters of physical education activities courses.

A. B. — Elementary Education

General Education .................................................................................. 12 courses
These courses are the same for all students. See pages 24-26 of the catalog.

Professional Education
The professional education component is included in the major listed below.

Major ........................................................................................................ 15 courses
Education 105 Elem. Sch. Health and Physical Education Fr.
Education 201 Introduction to Education Soph.
Education 202 Practicum in Education Soph.
Education 221 Teaching Social Studies in Elem. Sch. Soph.
Education 215 Educational Psychology Jr.
Education 211 Art for the Elem. Teacher Jr./Sr.
Education 322 Teaching Arithmetic in Elem. Sch. Jr.
Education 323 Teaching Reading in Elem. Sch. Sr.
Education 324 Teaching Language Arts in Elem. Sch. Sr.
Education 325 Teaching Science in Elem. Sch. Sr.
Education 364 Issues in Education Sr.
Education 372 Student Teaching—Elem. Sr.
Education 324, 325, 364, and 372 comprise the professional semester of the senior year. Education 324 and 325 are counted as one course toward graduation and student teaching is counted as three courses. In order to complete the major of fifteen courses one elective must be selected from the following courses:

Communication 101 Introduction to Communication
Communication 212 Oral Interpretation
Education 205 Children's Reading Material
Education 232 Interpersonal Communication for Classroom Teacher
Education 262 Creative Dramatics for Children
Education 301 Introduction to Exceptional Individuals
Education 303 Introduction to Learning Disabilities
Education 330 Introduction to Exceptional Individuals
Geography 201 Introduction to Geography
History 201 American History
History 202 American History
Political Science 212 American Government and Politics
Psychology 205 Developmental Psychology I

NOTE:
1. The elective fifteenth course must not be a part of the teaching minor or one of the general education courses.
2. Iowa teachers need History 201, or 202, or Political Science 212 to be recertified.
3. A human relations course or fifteen units of human relations credit is a professional requirement for Iowa certification.
4. Education 372 is counted as three courses.

Minor ......................................................... 6-8 courses
Each elementary education student must earn a minor in one of the fields listed as teaching minors in the course description section of the catalog.

NOTE:
1. For most minors an approval area is awarded which permits the teaching of the subject at the ninth grade level. The approval area is not required for K-8.
2. The minors in general science, mathematics, language arts, and social science represent the basic curricular areas in the elementary school.
3. The minors in art, library science, music and physical education permit teaching the subject matter outside of the self-contained classroom.
4. Students completing the art minor may substitute Art 350 for Art 211 in their elementary education major.

Electives .................................................... 5-7 courses

Physical Education
Each student must complete Physical Education 10 and three semesters of physical education activities courses.
OFF-CAMPUS PROGRAMS

Chicago Metropolitan Center Program
Selected juniors and seniors may register for a semester in the Chicago Metropolitan Center Program.

This program is under the supervision of Trinity Christian College. Each student spends several days in an on-the-job learning experience in such fields as business administration, social work, psychology, journalism, and government. In addition, each student participates in a metropolitan seminar, a values seminar, and a social research seminar.

Iowa Legislative Internship Program
Selected juniors and seniors may register for a semester in the Iowa Legislative Internship Program. The student is assigned to one of the Iowa legislators who is responsible for using him as an assistant. In addition to the work assigned by the legislator, each student completes an Individual Study project which capitalizes on his work experience and the many resources available in Des Moines.

Study Abroad Program in the Netherlands
Dordt College offers a unique opportunity to spend the spring semester off-campus in the Netherlands in a unique learning situation, while earning five courses of credit. Courses are offered in Dutch language and literature, Dutch art and architecture, Dutch culture and society, the history of the Low Countries, and Individual Studies.

Applicants need a 2.50 grade point average and completion of at least a semester of college Dutch or its equivalent. The program is designed for sophomores, juniors, and seniors. A screening committee will review all applications. Students should contact the program director, Dr. William Stronks, for information and application forms.
Summer Study Program in Mexico

High school and college students may apply to study at the Romance Language Institute of the University of Durango in Mexico. Dordt College students have the opportunity to serve as chaperons for the high school students. Classes are held at all levels, from beginning Spanish to an M.A. program. The Dordt College program in Mexico is for three weeks, beginning in mid-July each summer. College students can earn one course credit (3 semester hours).

German Overseas Program

During the Spring semester, Dordt College sponsors an academic program in Germany in conjunction with Dordt's Netherlands Program and the Goethe Institute. The focus of the program is upon gaining facility in the German language. Applicants need a 2.50 grade point average on the 4.00 scale and completion of German 201. The program is designed for sophomores, juniors, and seniors. A screening committee will review all applications.

Preparation For Graduate Study

Dordt College, through its major departments, prepares students for graduate level work. Students who plan to do graduate work should consult faculty advisors in the major department when selecting courses in the major field of study or in related supporting subjects. Courses should be carefully selected to meet the specified scholastic requirements of the graduate school which the student plans to enter. The Counseling Center maintains a file of graduate school catalogs which may be used by faculty members and students.
Courses of Instruction

COURSE DESCRIPTIONS

Accounting

General Major— Business Administration 201, 202, 301, 302, 310, 311, 312, 313, 314, 315, 351; two elective courses from business administration; Economics 201, 202; one elective course from economics; Computer Science 101; Mathematics 107.

Agriculture

General Major— Agriculture 101, 102, 201, 221, 232, 312, 313, 371; two elective courses from agriculture or Biology 319; Biology 115, 122; Business Administration 201, 206; Chemistry 101, 102; Economics 201, 202.

Agri-Business

General Major— Agriculture 101, 102, 201, 221, 232, 312, 371; Biology 115, 122; Business Administration 201, 202, 205, 206, 301; 302 or 315; Chemistry 101, 102; Economics 201, 202, 303.

101 Introduction to Animal Science (4)
Management, physiology, breeding, feeding and marketing of cattle, swine, sheep, poultry, and other animals. Three lectures and one laboratory period of three hours per week.

102 Introduction to Agronomy (4)
Principles of crop production. Emphasis is placed on the production of corn, soybeans, small grains and forages. The effect of soil and climate on plant growth and production is integrated into the various crop studies. Weeds and weed control are included. Three lectures and one laboratory period of three hours per week.

201 Nature and Properties of Soils (3)
A comprehensive introduction to the field of soil science with emphasis on scientific principles and their application in solutions of practical soil management problems. Two lectures and one laboratory of three hours per week. Prerequisites: Agriculture 102, Chemistry 101, 102.

221 Farm Operation and Management (3)
A study of principles involved in farm organization, management and operation. The use of financial and production records and the application of business principles to the farm operation. Two lectures per week and one laboratory period of three hours per week. Prerequisites: Agriculture 101, 102.

232 Animal Nutrition (3)
Function, values, and composition of common feed stuffs. Discussion of important components of diet. Formulation of beef, dairy, and swine rations. Two lectures per week and one laboratory of three hours per week. Prerequisites: Agriculture 101, Biology 115, Chemistry 101, 102.

311 Soil Fertility and Soil Management (3)
An integrated discussion of soil-crop yield relationships with emphasis on the soil as a source of mineral nutrients for crops and the role of fertilizers and manure in crop production. The course will also include a study of the principles and practices used in soil and water conservation, agronomic aspects of erosion control, water management, storage, drainage, and irrigation. Prerequisites: Agriculture 102, 201; Chemistry 101, 102.
312 Marketing Agricultural Products (3)
The application of marketing principles to the agricultural industry. Farm support prices, marketing channels, futures and commodities will be discussed. Three lectures per week. Prerequisites: Agriculture 101, 102, 221; Business Administration 206.

313 Principles of Plant Protection (3)
An introduction to the principles of plant pathology, economic entomology, and weed science. Attention will be given to identification, morphology, taxonomy, physiology, ecology, life cycles of pests and diseases, and control methods. Prerequisites: Agriculture 102, 201; Biology 115, 122; Chemistry 101, 102.

334 Physiology and Breeding of Farm Animals (3)
An application of the principles of physiology and genetics to the major classes of livestock. Physiology of reproduction, milk production, and ruminant digestion, will receive attention. Heritability, selection methods and mating systems are studied. Three lectures per week. Prerequisites: Agriculture 101, 232, Biology 213, Chemistry 201, 202.

341-348 Special Topics (3)
These courses will vary from year to year, and are designed to meet special student interests and to utilize staff strengths and the talents of experts in the community. Each course will cover material not usually treated in regularly scheduled courses.

371-372 Practicum (3)
Students will be given opportunity to apply the principles of agriculture and business in an off-campus assignment.

391 Individual Studies (3)
Open to qualified juniors and seniors with permission from the department. See the catalog section "Individual Studies" for application procedures and policies governing individual studies.

392 Individual Studies (3)
Same as Agriculture 391.

ART

General Major— Art 201, 202, 207, 208, 222; one course from Art 216, 218, 220; one course from Art 225, 228, 230; one course from Art 216, 218, 220, 225, 228, 230; two courses from Art 316, 318, 320, 322, 325, 328, 330; one course from Art 341-48, 391, 392; one elective course in art; participation in an exhibit in the senior year.

Teaching Major—
(Secondary) Art 201, 202, 207, 208, 222; one course from Art 216, 218, 220; one course from Art 225, 228, 230; one course from Art 216, 218, 220, 225, 228, 230; two courses from Art 316, 318, 320, 322, 325, 328, 330; one course from Art 341-48, 391, 392; one elective course in art; participation in an exhibit in the senior year.

Approval Area (For vertical certification Education 211 is also required.)
34—Art

Teaching Minor—
(Secondary) Art 201, 202, 222; one course from Art 216, 218, 220, 225, 228, 230; one course from Art 207, 208; two elective courses in art.

Approval Area 34—Art

101 Introduction to Art (3)
Lecture and participation in the basic elements and principles of art. Emphasis placed upon the student's involvement and response to materials and ideas. Not part of a major or minor program.
201 Fundamentals of Art: Two Dimensional (3)
Two dimensional design. Discovery of design through the use of the basic art elements: line, color, shape, texture, and value. The course is intended to develop a visual vocabulary and an imaginative approach to design.

202 Fundamentals of Art: Three Dimensional (3)
Introduction to the problems of three dimensional design organization through the investigation of form and space with elementary tools and materials. Includes experimental construction in various materials of differing properties such as wood, paper, wire, plaster, etc.

207 Art History (3)
An introduction to the history of the visual arts. A survey of the history of architecture, painting, and sculpture beginning with Ancient Cave Painting, up to the Renaissance.

208 Art History (3)
An introduction to the history of the visual arts. A continuation of Art 207 beginning with the Renaissance through the 20th century.

216 Sculpture (3)
An introduction to the various methods and materials used in developing three dimensional form including welding, clay, plaster, wood, etc. The student becomes involved in both additive and subtractive methods of working. Prerequisites: Art 201, 202.

218 Ceramics (3)
Introduction to the art of the Ceramist. There is involvement in mixing clay bodies and the basic processes of slab, pinch, coil, and thrown forms. Prerequisites: Art 201, 202.

220 Fibers (3)
An introduction to a variety of techniques and processes dealing with fibers and textiles from a creative point of view. Prerequisites: Art 201, 202.

222 Drawing (3)
The use of drawing as a means of expression. After acquiring the basic skills through an objective investigation of reality, attempts are made to integrate drawing and design principles using various tools and techniques, such as; pencils, charcoal, crayon, pen and ink, washes and paint. Prerequisite: Art 201.

225 Painting (3)
A study of the tradition in painting, emphasizing techniques and methods of communicating ideas visually. Work will give opportunity to experiment in various subjects and techniques including watercolor, acrylics, and tempra. Prerequisites: Art 201, 202.

228 Printmaking (3)
An introduction to the four basic printmaking methods, Serigraphy, Lithography, Woodcut, and Intaglio. The student will concentrate on one of the four methods. Prerequisites: 201, 202.

230 Photography (3)
An exploration of photography as an art form. The student must provide his own 35 mm. camera. A basic knowledge of the operation of a camera is required. Prerequisites: Art 201, 202.

316 Advanced Sculpture (3)
318 Advanced Ceramics (3)
320 Advanced Fibers (3)
322 Advanced Drawing (3)
325 Advanced Painting (3)
328 Advanced Printmaking (3)
330 Advanced Photography (3)
332 Advanced Studio (3)
333 Advanced Studio (3)

NOTE: Courses 316-330 are continuations of 216-230 media courses. Each 300 level media course has the 200 level media course as prerequisite.

341-348 Special Topics (3)
These courses vary each year and are intended to utilize various staff talents and communal expertise while involving the student in in-depth studies of art and art history.
370 **Senior Seminar In Art (3)**
A critical examination of contemporary problems and trends in the field of art. The course will include readings, discussions, a paper or presentation, critique of current exhibitions, and the senior art show.

391 **Individual Studies (3)**
Open to qualified juniors and senior with permission from the department. See the catalog section "Individual Studies" for application procedures and policies governing individual studies.

392 **Individual Studies (3)**
Same as Art 391.

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### Astronomy

Astronomy/Physics Major—Astronomy 121, 122, 203, and 204 or 252; Chemistry 103; Mathematics 112, 113, 201, 204; Physics 125, 126, 215, 216; and three courses from Chemistry 301, Physics 325, 326, 335, 336.

**110 The Earth: Geology and Oceanography (3)**
A descriptive survey of the Earth as a planet designed primarily for science majors. Primary emphasis on basic concepts of geology and oceanography. Special attention given to Earth's crust, submarine geology, plate tectonics, and interior structure. The history of planet Earth will be discussed in Christian perspective. Note: this course may not be used to meet the two-semester science requirement.

**121 Solar System Astronomy (4)**
An advanced descriptive introduction to planetary astronomy, with emphasis upon recent discoveries concerning planets and satellites, and their implications for our improved understanding of our Earth. Theories concerning the origin of the Solar System will also be discussed. Four lectures a week, plus alternate-week observing sessions (weather permitting). Prerequisite: one year of high school algebra.

**122 Stellar and Galactic Astronomy (4)**
An advanced descriptive introduction to stellar and galactic astronomy. Discussion of the kinds of stars, their origins, energy production, and final collapse; the nature of nebulae, star clusters, black holes, galaxies and quasars; modern cosmology; extra-terrestrial life. Students will undertake a variable star observing project. Four lectures a week; occasional observing sessions (weather permitting). Prerequisite: Astronomy 121 or permission from the instructor.

**203 The Inner Planets (3)**
The geology of the inner planets and their satellites. Special attention given the Moon and Mars. Study of surfaces, interiors, atmospheres; results of lunar orbiter and apollo missions; Martian Mariner and Viking missions. Conducted as a weekly seminar. Prerequisites: Astronomy 121, 122; Astronomy 110 helpful but not required.

**204 The Outer Planets (3)**
Physical studies of the planets and satellites beyond Mars. Major attention given to the asteroids, Jupiter, and Saturn. Conducted as a weekly seminar. May be taken without Astronomy 203. Prerequisites: Astronomy 121, 122.

**252 Double Stars, Variable Stars, and Quasars (3)**
Discussion of the literature pertaining to double stars, variable stars, and optically variable galaxies and quasars. Conducted as a tutorial by special arrangement. Students are expected to write several papers, and will be involved in an observing project. Prerequisite: Astronomy 122.

**341-348 Special Topics (3)**
Each of these courses is devoted to a different topic and each is designed to be a special interest course, offered on the basis of student demand and instructor competency and availability. Prerequisites depend upon topics covered.
391 **Individual Studies (3)**
Open to qualified juniors and seniors with permission from the department. See the catalog section "Individual Studies" for application procedures and policies governing individual studies.

392 **Individual Studies (3)**
Same as astronomy 391.

**Biology**

**General Major —** Biology 115, 122, 200, 213, and six elective courses in biology numbered 200 or above; Chemistry 103, 104, 201, 202, 205.

**Teaching Major —**
*(Secondary)* Biology 115, 122, 200, 213, 391, and five elective courses in biology numbered 200 or above; Chemistry 103, 104, 201, 202, 205.

**Approval Areas**
63 — Biology  
64 — Chemistry  
65 — General Science (with Physics 115, 116)

**Teaching Minor —**
*(Secondary)* Biology 115, 122, 200, 213, and two elective courses in biology numbered 200 or above.

**Approval Area**
63 — Biology

101 **Biological Sciences (3)**
Contemporary biological problems will be stressed and important biological concepts and processes related to these. Topics include the nature and origin of life, processes and problems of human functioning, and a survey of the plant and animal kingdoms. Not applicable to the major or minor.

102 **Biological Sciences (3)**
Topics include heredity and variation, ecological concepts and Christian stewardship, and fossils in Christian perspective. Similar in approach to Biology 101, but a separate course which may be taken without Biology 101. Not applicable to the major or minor.

115 **General Botany (4)**
An introductory study of the anatomy, physiology, taxonomy, and economic importance of major plant groups. Three lectures and one laboratory period of three hours per week.

122 **General Zoology (4)**
A study of the anatomy, physiology, ecology, taxonomy, and economic importance of the invertebrate and chordate animals. Three lectures and one laboratory period of three hours per week.

200 **Principles of Ecology (3)**
A study of local flora and fauna and their relationships to the environment. Major world ecosystems will be discussed. Two lectures and one laboratory period (primarily outdoors) of two or three hours per week. Prerequisite: 1 year of college biology.

201 **Human Anatomy and Physiology (3)**
An introduction to the study of human biology, with emphasis on the structures and functions of the organ systems of man. Two lectures and one laboratory period of two hours per week. Prerequisite: Biology 122. Freshman Pre-Nursing students with permission.

202 **Human Anatomy and Physiology (3)**
A continuation of Biology 201.

204 **Environmental Biology (3)**
A study of man's effect on his environment, including pollution and conservation. Population dynamics and animal social behavior will also be included. Two lecture-discussions and one laboratory period of two hours per week. Prerequisite: Biology 200.

211 **Invertebrate Zoology (4)**
A study of the taxonomy, anatomy, life history, and ecology of major groups of invertebrates. Three lectures and one laboratory-field period of three hours per week. Prerequisite: Biology 122.
213 **Genetics (3)**
An introduction to the principles of inheritance and variation in plants, animals, and man. Three lectures per week. Prerequisites: Biology 115 and 122 or permission from the instructor.

217 **Plant Morphology (4)**
A comparative study of the structure, reproduction, life habits, and relationships of the major plant groups. Three lectures and one laboratory period of three hours per week. Prerequisite: Biology 115.

235 **Cell Biology (3)**
A study of the morphology and physiology of the cell, its organelles, and its constituents. Three lectures per week. Prerequisites: Biology 115, 122; Chemistry 103, 104.

301 **Embryology (3)**
A study of the development of representative vertebrates such as the frog, chick, and pig. Two lectures and one laboratory period of three hours per week. Prerequisite: Biology 122.

302 **Microbiology (3)**
A study of the form, structure and classification of various micro-organisms. Emphasis on bacteria, general laboratory technique, culture, media, sterilization, germicidal action of disinfectants, and staining methods. Includes information on antibodies and antigens, host-antigen reaction, bursal and thymic influences on lymphoid cells, humoral and cellular response mechanisms, and non-specific host defense mechanisms. Two lectures and one laboratory period of two hours per week. Prerequisites: Biology 115 and 122 or permission from the instructor.

304 **Histology (4)**
A study of the microscopic anatomy of animal tissues and organs, with emphasis on the relationship between structure and function. Two lectures and two laboratory periods of two hours per week. Prerequisite: Biology 122.

312 **Comparative Chordate Anatomy (4)**
A comparative study of the anatomy of chordate animals. Two lectures and two laboratory periods of three hours per week. Prerequisite: Biology 122.

319 **Plant Physiology (3)**
A study of the basic functional aspects of plant growth, development, and reproduction. Lecture topics will include water relations, nutrient relations, translocation, photosynthesis, flowering, fruiting, seed germination, growth, development and phyto-hormones. Two lectures and one three hour lab period per week. Prerequisites: Biology 115, Chemistry 103, 104.

341-348 **Special Topics (3)**
These courses will vary from year to year and are offered as student demand and instructor availability permit. They are designed to open additional areas of biological inquiry.

351 **Evolutionism (3)**
A study of the theories of origins, of the history and evidences of evolutionism, and analysis of contemporary ideology. Open to all junior and senior students.

355 **Research (1)**
Original laboratory, field or library research on an approved topic, supervised by the department staff. Open only to junior and senior majors.

356 **Research (1)**
A continuation of Biology 355.

391 **Individual Studies (3)**
Open to qualified juniors and seniors with permission from the department. See the catalog section "Individual Studies" for application procedures and policies governing individual studies.

392 **Individual Studies (3)**
Same as Biology 391.

**Business Administration**

General Major - Business Administration 101, 201, 202, 205, 206, 301, 351, and four elective courses in business administration; Economics 201, 202, 303, and one elective course in economics.
101 **Introduction to Business (3)**
A survey of the dynamic economy of our nation, a study of the objectives and responsibilities of business, and a consideration of the ethical problems of business. A non-technical course designed to benefit all college students.

201 **Principles of Accounting (3)**
An elementary course in fundamental Accounting theory and practice; a study of principles of accountability, record keeping, procedures, and preparation of financial reports.

202 **Principles of Accounting (3)**
A continuation of Business Administration 201, with further study of partnerships, the corporation, and manufacturing problems; emphasis on interpretation of financial reports. Prerequisite: Business Administration 201.

205 **Principles of Management (3)**
A basic course in management fundamentals as applied to business organizations as well as to school, church, and other organizations seeking to accomplish objectives through group activity; a Christian approach to management problems.

206 **Principles of Marketing (3)**
A study of marketing institutions, channels of product distribution, problems of price determination, promotion methods, government influences, and ethical problems of the marketing man.

301 **Business Law (3)**
A study of law and its administration in business relationships, with primary emphasis on the law of torts, contracts, agency, and property.

302 **Business Law (3)**
A continuation of Business Administration 301 with emphasis upon the law of bailments, negotiable instruments, sales, partnerships, and corporations.

308 **Advertising (3)**
A course in principles and practice of advertising, promotion, and public relations strategy, in Christian perspective. A study of legal and ethical aspects of advertising and promotion, and application of effective procedures. Prerequisite: Business Administration 206, junior or senior status.

310 **Intermediate Accounting (3)**

311 **Intermediate Accounting (3)**
Continuation of Business Administration 310, includes special financial reports and financial analysis.

312 **Advanced Accounting (3)**
A comprehensive study of accounting problems of partnerships, consolidations, branch operations, bankruptcies, estates, trusts, etc. Prerequisite: Business Administration 202.

313 **Cost Accounting (3)**
A study of measurement and evaluation of production costs, including job order costing, process costing, standard costing, quantitative methods of costing. Prerequisite: Business Administration 202.

314 **Auditing (3)**
A working knowledge of principles and procedures of professional auditing and accounting with special emphasis on A.I.C.P.A. standards, and on professional ethics. Prerequisites: Business Administration 311, 312.

315 **Federal Income Tax Accounting (3)**
A study of federal income tax regulations and forms, based on the Internal Revenue Code. A study of income tax problems for the individual, for business organization, for non-profit institutions. Prerequisite: Business Administration 201 or Business Education 203 or permission of instructor.

325 **Corporation Finance (3)**
An analysis of the financial structure and problems of the corporation, with emphasis on financial planning, analysis and control; includes discussion of a variety of financial assets, as well as the impact of inflation and interest rates on financial decision making.
326 Investment Management (3)
A study of characteristics of types of securities, the function of securities markets, the theory
of securities valuation, and portfolio management; investigated within a Christian perspective regard
the use of financial assets as investments. Prerequisites: Business Administration 202, 325, and
Economics 202.

341-348 Special Topics (3)
Courses on different topics, designed to be a special interest course, utilizing individual instructor
strengths, interest, and competencies. Each course selected will involve a topic not usually treated in
depth in regularly scheduled courses.

351 Senior Business Seminar (3)
An integration of departmental courses, research, and analysis of current topics, with emphasis on
Christian perspectives for the businessman. Includes a field trip to a metropolitan area to observe
major business and industrial organizations and procedures. Required of all senior students of
Business Administration.

391 Individual Studies (3)
Open to qualified juniors and seniors with permission from the department. See the catalog section
"Individual Studies" for application procedures and policies governing individual studies.

392 Individual Studies (3)
Same as Business Administration 391.

Business Education

Teaching Major —
(Secondary) Business Administration 201, 202, 301, 302, 351; Business Education
105, 112, 113, 321, and three elective courses from business adminis-
tration and/or from business education; Economics 201, 202, and one
elective course in economics.

Approval Areas
35—Accounting
36—Business Law
37—Basic Business
39—Typewriting
101—Office Skills
38—Shorthand (If three shorthand courses are included)

Teaching Minor — Alternative I
(Secondary) Business Administration 201, 202, 301, 302; Business Education 112,
113; Economics 201, 202.

Approval Areas
35—Accounting
36—Business Law
37—Basic Business
39—Typewriting

Teaching Minor — Alternative II
(Secondary) Business Administration 201, 202; Business Education 105, 112, 113,
211, 212, 213.

Approval Areas
35—Accounting
37—Basic Business
38—Shorthand
39—Typewriting
101—Office Skills
105 Calculating Machines (3)
The development of job-level skill in the operation of the electronic calculator emphasizing the application of this machine in the solution of typical problems in business mathematics. (Open only to majors in Business Education and to students in the Associate of Arts program in Secretarial Science.)

112 Typewriting II (3)
Development of accuracy and speed. Application of skill to more complex tabulations, correspondence, reports, business forms, and composition at the typewriter. This course may be waived by passing a proficiency examination administered by the Business Education Department. For students who have had no previous typewriting training, arrangements can be made by the department for basic keyboard instruction. (Open only to majors in Business Education and to students in the Associate of Arts program in Secretarial Science.)

113 Typewriting III (3)
Development of skill to production level. Emphasis upon office-type work assignments with evaluation based upon high-level office standards of production. Prerequisite: Business Education 112 or equivalent.

203 Introduction to Accounting (3)
A one semester terminal course in accounting to provide exposure to basic accounting records and reports as to content and value for management. Designed for Secretarial Science students. Students who wish to complete additional accounting courses must begin with Business Administration 201.

211 Shorthand I (3)
A study of Gregg shorthand theory, including the shorthand alphabet, brief forms, principles of reading and writing shorthand, and taking dictation. Prerequisite or corequisite: Business Education 111. (This course may be waived if the student has two semesters of high school shorthand or if he passes a proficiency test.)

212 Shorthand II (3)
A complete review of the theory of Gregg Shorthand with a major emphasis on increasing dictation speed; beginning development of typewritten transcription skills. Prerequisite or corequisite: Business Education 112. (This course may be waived by passing a proficiency test.)

213 Shorthand III (3)
Emphasis on the development of skills necessary to produce a mailable transcript from office-style dictation; specialized vocabulary building and continued improvement of dictation speed. Prerequisite: Business Education 212 or equivalent and prerequisite or corequisite Business Education 113.

321 Office Procedures and Administration (3)
A study of procedures and duties essential to the efficient administration of an office by an executive secretary, including receiving, transmitting, duplicating, storing and retrieving business information, composing business letters, reports and memoranda. Prerequisite or corequisite: Business Education 113.

322 Advanced Secretarial Procedures and Communications (3)
A continuation of Business Education 321, with emphasis in human relations in communication, taking and giving dictation, financial and legal aspects of secretarial work, administrative and supervisory opportunities for the secretary, and general development of skills and secretarial ethics for the high-level secretary. Prerequisite: Business Education 321.

323 Automated Word Processing (3)
In Automated Word Processing we identify the changes made in the traditional office effected by word processing procedures and equipment. This course also provides an ability to produce typewritten communications at top speed with greatest accuracy, least effort, and lowest cost, through the combined use of proper procedures and modern word-processing equipment. Prerequisite: Business Education 113.

Chemistry

General Major — Chemistry 103, 104, 201, 202, 301, 302, 311, 391, and two courses from Chemistry 205, 312, 321; Mathematics 112, 113, 204; Physics 115, 116 or 125, 126.
Teaching Major—
(Secondary) Chemistry 103, 104, 201, 202, 205, 301, 302, and one course from Chemistry 311, 312, 321, 391; Mathematics 112; Physics 115, 116.

Approval Areas
64—Chemistry
88—Physical Science (With Astronomy 103, 104 and Physical Science 110 or 201.)

Teaching Minor—
(Secondary) Chemistry 103, 104, 201, 202, 311, and either 205, or 312.

Approval Area
64—Chemistry

101 General, Organic, and Biological Chemistry (4)
A course in the basic concepts of general, organic, and biological chemistry. Three lectures and one three hour laboratory period per week. The laboratory will be the same as that in Chemistry 103.

102 General, Organic, and Biological Chemistry (4)
A continuation of Chemistry 101. Three lectures and one three hour laboratory period per week. The laboratory will include experiments in organic and biological chemistry.

103 General and Analytical Chemistry (4)
A course in the fundamental principles of chemistry. The laboratory consists of problems in quantitative analysis with both wet procedures and elementary instrumental procedures used. The intent of the laboratory part of the course is to prepare students who will either take more chemistry courses or upon completion of the course will work in a laboratory where analytical techniques are required. Three lectures and one laboratory period per week.

104 General and Analytical Chemistry (4)
A continuation of Chemistry 103.

201 Organic Chemistry (4)
A study of the chemistry of the hydrocarbons, including aliphatic, cyclic, and aromatic. An introduction to organic reaction mechanisms. Three lectures and one laboratory period per week. Prerequisite: Chemistry 104.

202 Organic Chemistry (4)
A study of the various organic functional groups. The study of organic reaction mechanisms is continued. Three lectures and one laboratory period per week.

203 Introduction to Theoretical Chemistry (3)
The course will cover, on an elementary level: surface chemistry; radioactivity and its uses; aqueous solutions, with emphasis on pH and buffers; and elementary thermochemistry. The course is intended for those in disciplines in which chemical principles are used, especially in the life and health sciences. Prerequisite: Chemistry 104.

205 Biochemistry (3)
An introduction to the chemistry of living systems. Some topics discussed including pH and buffers, carbohydrates, lipids, proteins, nucleic acids, and enzymes. This knowledge is then applied to a study of the metabolism of the major cell constituents and integrated through a consideration of the interrelations among the carbon, nitrogen and energy cycles. Three lectures per week. Prerequisite: Chemistry 202.

301 Physical Chemistry (4)
An introduction to thermodynamics with application to physical and chemical systems. This introduction includes a study of solution chemistry. Three lectures, one seminar, and one laboratory period per week. Open only to juniors and seniors. Prerequisites: Chemistry 103, Physics 115 or 125, and Mathematics 112.

302 Physical Chemistry (4)
A continuation of Chemistry 301. Quantum mechanics and kinetics. Three lectures, one seminar, and one laboratory period per week.

311 Advanced Inorganic Chemistry (3)
A survey of the chemistry of the elements based on the physical principles underlying the periodic arrangement of the elements. Three lectures per week. Prerequisite: Chemistry 104.
312 Instrumental Analysis (3)
Optical, electrical, and chromatographic methods of quantitative analysis and theoretical study. Two hours of lecture and one laboratory period per week. Prerequisite: Chemistry 104 or permission.

321 Advanced Organic Chemistry (3)
Advanced topics in organic chemistry, with an emphasis in reaction mechanism, kinetics, and other currently-active areas of organic chemistry. Intended primarily for chemistry majors. Three lectures per week. Prerequisites: Chemistry 104 and 202.

391 Individual Studies (3)
Open to qualified juniors and seniors with permission from the department. See the catalog section "Individual Studies" for application procedures and policies governing individual studies.

392 Individual Studies (3)
Same as Chemistry 391.

Classical Languages

General Major — Greek 201, 202, 301, 302; one elective course in Greek; History 203, 204, 205, 206; Philosophy 301, 302.

Communication/Speech

General Majors— Communication: Communication 111, 201, 220, 228, 241, 250, 301, 313, or 315; three electives from communication courses numbered 200 or above.

Journalism emphasis: Communication 111, 201, 220, 241, 242, 250, 301, 302, 313; one communication elective course numbered 200 or above.

Radio/Television emphasis: Communication 111, 201, 241, 242, 250, 258, 301, 313 or 315; 352; one communication elective course numbered 200 or above.

Speech: Communication 111, 201, 212, 214, 311, 313, 315; three electives from communication courses numbered 200 or above.

Teaching Major—
(Secondary)
Speech: Communication 111, 201, 212, 214, 219, 220, 311, 315; four elective courses from Communication 222, 228, 250, 258, 313, 320, 341-50, 352, 391, 392, Theatre Arts 201, 202, 203, 204, 310, 340 (no more than two courses selected from theatre arts).

Approval Area
46—Speech

Teaching Minors—
(Secondary)
Journalism: Communication 241, 242, 243, 301, 302; two courses from Communication 201, 220, 222, 244, 250, 313, 315, English 303.

Approval Area
47—Journalism

Approval Area
46—Speech

041-048 Student Publications Production (1)
Open to all who work on student publications—who submit, in advance, a learning activities contract listing the types of projects and learning experiences in which they will participate. (Graded on a P/No record basis.)
101 Introduction to Communication (3)
This survey course, open to all students, is designed to acquaint the student with general concepts, problems, and ethics in communication. The student will be introduced to experiences in various types of communication, such as interpersonal communication, group discussion, public address, mass communication, etc. Not applicable to the major.

111 Fundamentals of Public Address (3)
The study of the basic concepts of speech construction and delivery. Includes presentation of various types of speeches.

201 Principles of Communication (3)
A course designed to introduce the beginning communication student to some of the basic principles and thought in the study of communication such as communication models, variables, symbols, perception, intrapersonal communication, and semantic problems.

212 Oral Interpretation (3)
This course seeks to give students practice in the analysis and presentation of the various types of prose and poetry including the reading of the Holy Scriptures. An introduction to reader's theatre and choral reading will be presented.

214 Voice and Phonetics (3)
The study of the vocal mechanism with a brief sketch of vocal problems and extensive analysis of proper sound production and transcription in the International Phonetic Alphabet.

219 Interscholastic Speech Activity (1)
The necessary preparation and performance in at least two intercollegiate forensic and/or debate tournaments or festivals per semester. A pass-fail course of one credit per semester. Course may be repeated each semester. Prerequisite: consent of the instructor.

220 Small Group Discussion and Communication (3)
Theory and practice of group problem-solving in cooperative face to face discussion; the development of awareness and understanding of group dynamics and the presentation of panels, symposiums, and dialogues.

222 Interpersonal Communication (3)
The study of concepts, problems, and responsibilities in personal communication between individuals, such as conversation and informal discussions, with consideration of status, power, trust, and other variables.

228 Organizational Communication (3)
The analysis of formal and informal communication in such organizations as corporations and institutions. Included will be considerations of communication problems related to grapevine, rumor, channels, perception, power, status, roles, structures, etc.

241 Journalism I (4)
An introduction to news reporting (press and broadcast) under the law and the Constitution. The course includes extensive writing of all types of news articles. It uses the Diamond, the school newspaper, as its laboratory. A perspective on Christian journalism is stressed throughout.

242 Journalism II (4)
A continuation of Communication 241. The course introduces the student to indepth and investigative reporting, interviewing, critiquing, and editing, as well as to layout and design, type, headlines, and photography. It uses the Diamond, the school newspaper, as its laboratory. The magazine is introduced, and its importance as Christian journalism is stressed. Prerequisite: Communication 241.

243 Journalism Production (3)
A three-semester sequence in journalism production based upon working on the Diamond. The course will be designed for each individual, and learning contract requirements will be met by three enrollements, normally in three consecutive semesters. Prerequisite: Communication 241 or two units of Communication 041-048.

244 Journalism Production II (3)
A three semester sequence of student publication work beyond Communication 243. Open only to communication majors.

250 Introduction to Broadcasting (3)
This course provides an introductory exploration into the world of radio and television as communication media. Through a lecture-discussion format, the student is introduced to the complexities of sight and sound broadcasting and the electronic medias impact on society. Special emphasis is given to broadcasting in the United States with some overview of broadcasting in other countries. This course is designed as a practical, non-theoretical, non-philosophical approach to broadcasting.
258 Broadcast Announcing (3)
A practical, introductory course in communicating to a broadcast audience through careful use of pronunciation, articulation, diction, and microphone technique. Exercises will include various types of broadcast speaking such as commercials, news, and music programs.

301 Advanced Expository Writing I (3)
This course is designed to help the person who has trouble getting started writing and the person who feels his prose too wordy, too abstract, or too dead. In other words, the course will stress writing and rewriting, vision and revision. It will be geared for all students, regardless of their major. We will study how to use description, narration, and analogy to aid in exposition, how to describe a process, how to compare and contrast, how to classify. There will also be assignments in analysis, inductive writing, deductive writing, and in definition.

302 Advanced Expository Writing II (3)
This course will get at some of the same principles as Communication 301, but will make more use of prose models. Students will work on clarifying the writer's stance, establishing the writer's tone, and gaining force by way of syntax.

311 Advanced Public Speaking (3)
An emphasis upon proper speech construction, and delivery with application of communication concepts. Includes analysis of some public addresses. Prerequisite: Communication 111 or consent of instructor.

313 Persuasion (3)
The analysis and study of modern research regarding various types of persuasive appeals and of theories of persuasion with particular emphasis upon Christian theory and ethics.

315 Argumentation (3)
Basic principles of argumentation and their application in debate. Consideration of analysis of issues, evidence and reasoning, refutation, ethics, and various types of debate.

320 Ensemble Interpretation (3)
Development and presentation of dramatic production which include pieces of poetry, prose, and drama. Utilization of props, lights, sound effects, and slide projections. Emphasis on developing original scripts comprised of pieces written by Christians. Prerequisite: oral interpretation.

341-348 Special Topics (3)
This course will consist of topics not normally covered in other communication courses. Specially designed to focus on more specific topics utilizing instructor strengths and consideration of student needs.

352 Radio Production (3)
Training in equipment use and control room procedures; uses and functions of microphones and video tape recorders. Classroom and studio instruction in radio programming and production skills.

391 Individual Studies (3)
Open to qualified juniors and seniors with permission from the department. See the catalog section "Individual Studies" for application procedures and policies governing individual studies.

392 Individual Studies (3)
Same as Communication 391.

Computer Science

101 Introduction to Computing (3)
An introduction to programming concepts and the use of the computer utilizing the BASIC language. (Note: not both Computer Science 101 and 102 may be taken for credit.)

102 Programming for the Natural Sciences (3)
An introduction to BASIC and FORTRAN computer languages, and programming in these languages, with emphasis on scientific applications. (Note: not both Computer Science 101 and 102 may be taken for credit.)

111 Structured Programming I (3)
An introduction to structured programming using a block-structured language. The concepts of top-down programming and step-wise refinement of algorithms are emphasized. This course is intended for students who plan further study in Computer Science.
112 **Structured Programming II (3)**  
A continuation of Computer Science 111. The topics covered include modular programming, file handling, and string manipulation. Prerequisite: Computer Science 111.

391 **Individual Studies (3)**  
Open to qualified juniors and seniors with permission from the department. See the catalog section "Individual Studies" for application procedures and policies governing individual studies.

392 **Individual Studies (3)**  
Same as Computer Science 391.

**Dutch**

General Major — Dutch 201, 202, 206, 302, Linguistics 201; five elective courses from Dutch 101, 102, 207, 208, 301, 341-348, 391, 392; and four semesters of conversation 251-258. Study abroad courses are recommended.

101 **Elementary Dutch (4)**  
Emphasis on the basic structure of the language, core vocabulary, and pronunciation. Assigned work in the language laboratory.

102 **Elementary Dutch (3)**  
Continuation of 101. Prerequisite: Dutch 101 or its equivalent.

201 **Intermediate Dutch (3)**  
A review of the grammatical structure of Dutch, with an emphasis on the nature of language. Some attention given to listening, speaking and reading skills, vocabulary, and culture. Outside projects required. Prerequisite: two years of high school Dutch or Dutch 102.

202 **Literary and Cultural Readings (3)**  
This course is designed to develop the reading skill and an appreciation for Dutch culture and literature. Emphasis upon contemporary literature. Permission will be granted for individual readings in academic areas of interest to the student. Prerequisite: Dutch 201 or departmental approval.

206 **Dutch Culture (3)**  
This course is designed to cover many aspects of the Dutch way of life. There will be an emphasis on listening and speaking skills. Prerequisite: Dutch 201 or departmental approval.

207 **World Literature (3)**  
See English 207. Students who wish this course to be listed as a Dutch course will be assigned their paper based on Dutch readings.

208 **World Literature (3)**  
See English 208. Students who wish this course to be listed as a Dutch course will be assigned their paper based on Dutch readings.

251-258 **Conversation (1)**  
A conversation course will be offered each year. The course is designed to give the student practice in listening and speaking. The content of the course will be altered each year. The class will meet two times each week; one hour of preparation per week. Prerequisite: Dutch 101.

301 **Dutch Phonology (3)**  
See Linguistics 301. The principles and universals of phonology will be studied. A direct application will be made to the Dutch language.

302 **Advanced Dutch Grammar (3)**  
This course is designed for those who desire a better understanding of the structure of the language. The scope of grammar will be approached systematically. Prerequisite: Dutch 201 or its equivalent.

341-348 **Special Topics (3)**  
The topics for these courses will be chosen from the areas of literature, advanced language studies, culture, or teaching methods. The offering of the courses as well as the content will reflect student interest and need. Prerequisite: departmental approval.

391 **Individual Studies (3)**  
Open to qualified juniors and seniors with permission from the department. See the catalog section "Individual Studies" for application procedures and policies governing individual studies.

392 **Individual Studies (3)**  
Same as Dutch 391.
Economics

Teaching Minor—
(Secondary) Business Administration 201, 202, 301, 302; Economics 201, 202, two courses from Economics 303, 305, 309, 315.

Approval Areas
35—Accounting
36—Business Law
37—Basic Business
69—Economics

201 Principles of Economics (3)
A study of economic principles which apply to business, industry, and government in modern society, including economic systems, the banking system, national income analysis, employment problems, economic controls, and the function of competition and price; Biblical perspective regarding economic problems.

202 Principles of Economics (3)
Continuation of Economics 201. Prerequisite: Economics 201.

303 Money and Banking (3)
An analysis of the nature and function of money, the operation of the financial system, the organization of commercial banking, and the Federal Reserve System. A study of the principles of monetary policy and their application in our economy. Prerequisite: Economics 201, 202.

305 Labor Problems (3)
A study of economics of organized labor, collective bargaining, labor legislation; the Christian and Labor. Prerequisite: Economics 201, 202.

309 Economic History of the United States (3)
History of the economic development of our nation from the economic point of view. A study of economic causes and effects of major historical events, with contemporary economic thought. Prerequisite: Economics 202 or permission.

315 Government Finance (3)
Consideration of tax systems on federal, state, and local levels; problems of fiscal policy, debt management, and federal budget; analysis of efforts to control economic stability and growth. Prerequisite: Economics 202.

Education
Students may prepare for teaching in the Elementary or in the Secondary school. To be eligible for recommendation for certification students must be admitted to the Teacher Education Program and must complete the requirements for the Bachelor of Arts Degree in Elementary Education or in Secondary Education. For information on requirements for admission to the Teacher Education Program, see the section of the catalog entitled TEACHER EDUCATION PROGRAM.

Elementary Education — Teaching Minors

1. ART (Approval Area 34)
Art 201, 202, 222; one course selected from Art 207, 208; one course selected from Art 216, 218, 220, 225, 228, 230; two courses selected from Art 200 or above.

2. BIOLOGY (Approval Area 63)
Biology 115, 122, 200, 213; two selected courses in biology numbered 200 or above.

3. CHEMISTRY (Approval Area 64)
Chemistry 103, 104, 201, 202, 311; one course selected from Chemistry 205, 312.
4. **COMMUNICATION-JOURNALISM** (Approval Area 47)
   Communication 241, 242, 243, 301, 302; one course selected from Communication 244, 391 (to be done in the area of journalism); one course selected from Communication 201, 220, 222, 250, 313, English 303.

5. **COMMUNICATION-SPEECH** (Approval Area 46)
   Communication 111, 212, 214, 219, 220, 315; Education 232; Theatre Arts 262.

6. **ECONOMICS** (Approval Area(s) Accounting 35, Business Law 36, Economics 69, Basic Business 37)
   Business Administration 201, 202, 301, 302; Economics 201, 202; two selected courses from Economics 303, 305, 309, 315.

7. **ENGLISH** (Approval Area 45)
   English 200, 201, 202, 336; one course selected from English 301, 302, 303; one course selected from English 312, 314, 315, 316; two courses selected beyond the English 200 level, one of which may be Theatre Arts 364 or 365.

8. **ENGLISH AS A SECOND LANGUAGE (ESL)** (No Approval Area)
   Linguistics 201, 301, 371; English 336; Education 355; Foreign Language 201; one course from Foreign Language 202, 206; two semesters of foreign language conversation 251-258.

9. **GENERAL SCIENCE** (Approval Area 65)
   Biology 101, 102, 200; Physical Science 201; two courses selected from astronomy, chemistry, physics, physical science; two courses from any science.

10. **GERMAN** (Approval Area 55)
    German 201, 202, 206, 301, 302; one selected course from German 102, 341-348, 391; two semesters of German conversation 251-258. Study abroad courses are recommended.

11. **HISTORY** (Approval Areas 72, 73)
    History 101, 102, 201, 202; two selected courses from History 305, 309, 311, 312; two selected courses from History 203, 204, 205, 206, 207, 208, 209, 210, 301, 302, 303, 307.

12. **LANGUAGE ARTS** (No Approval Area)
    Education 232; English 336; Library Science 205 or 206; Theatre Arts 262; three courses selected from English 201, 202, 221, 222, Communication 212, 214, 220, Linguistics 201.

13. **LIBRARY SCIENCE** (Approval Area 86)
    Library Science 201, 202, 203, 204, 205, 206, 391.

14. **MATHEMATICS** (Approval Area 58)
    Mathematics 107, 109, 112, 207, 208, 210; one course from computer science. (Mathematics 110 must also be taken if the student has had less than four years of high school mathematics.)

15. **MUSIC** (Approval Area 60)
    Music 103, 104, 308, 312, 315, 317; three courses selected from Music 203, 204, 207, 208, 210, 211, 212, 305, 307.

16. **PHYSICAL EDUCATION** (Approval Area 62) (Coaching Endorsement 55)
    Physical Education 10; Education 105; Physical Education 203, 204, 205, 207, 11; one course selected from Physical Education 212, 213; two courses selected from Physical Education 304, 305, 306; two courses selected from Physical Education 14, 15, 17, 18, 19, 20, 21, 22, 23, 24.
17. **PHYSICAL SCIENCE** (Approval Area 88)
   Astronomy 103, 104; Chemistry 103, 104; Physics 115, 116; one course selected from Physical Science 110, 201; one course selected from Chemistry 201, 202, 203, 301, 302, 311, 312, Physics 206, 215, 216.

18. **PHYSICS** (Approval Area 66)
    Physics 115, 116, 206, 215, 216; one course selected from astronomy or physics.

19. **POLITICAL SCIENCE** (Approval Area 71)
    Political Science 201, 212, 320, 321, 322; two courses from Political Science 210, 211, 311, 312.

20. **PSYCHOLOGY** (Approval Area 87)
    Psychology 201, 205, 210, 302; two courses from Psychology 225, 303 or 315; one additional psychology elective for a total of seven psychology courses.

21. **READING** (Approval Area 91)
    Education 205, 303, 323, 324, 327; Linguistics 201; and one course from Linguistics 301 or Communication 214.

22. **SOCIAL SCIENCE** (No Approval Area)
    Geography 201; Sociology 201, 202; two history courses other than History 101 or 102; three courses selected from Economics 201, 202, Political Science 201, 212.

23. **SOCIOMETRY** (Approval Area 74)
    Sociology 201, 202, 207, 210; three courses selected from Sociology 203, 205, 206, 211, 391.

24. **SPANISH** (Approval Area 57)
    Spanish 201, 202, 206, 301, 302; one course selected from Spanish 102, 341-348, 391; two semesters of Spanish conversation 251-258. Study abroad courses are recommended.

25. **SPECIAL EDUCATION** (No Approval Area)
    Education 301, 302, 303, 304, 305, 306; one course from Psychology 205, 225, 302.

26. **THEATRE ARTS** (No Approval Area)
    Theatre Arts 201, 202, Education 262; one course selected from Theatre Arts 207, 208, 317; one course selected from Theatre Arts 371, 373, 377; two courses selected from Communication 111, 212, 220, 313, Theatre Arts 203, 340; two units selected from Theatre 014-051, Communication 219.

27. **THEOLOGY** (No Approval Area)
    Two courses from Theology 201, 202, 203; Theology 210; three courses selected from Theology 211, 212, 215, 216; one course selected from theology other than Theology 101.

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105 **Elementary School Health and Physical Education (3)**
Provides general background and information needed for formulating and teaching a suitable program in health and physical education for elementary school children.

201 **Introduction to Education (3)**
An introduction and orientation to teaching. Consideration is given to formulating a Christian confession of education as well as investigating the contemporary scene with its historical antecedents, curriculum planning, evaluation, pedagogical approaches, and teaching as a profession.

202 **Practicum in Education (3)**
Provides an early in-depth experience in a school environment, a study of tests and measurements, and a study of audiovisual media as effective means for achieving educational objectives. Emphasis is on the use of equipment and the development of materials. Students must provide supplies that are available at the bookstore.
205  **Children's Reading Material (3)**
A reading and examination of a wide selection of children's books and magazines useful in enriching the subject areas of the elementary school curriculum and in providing good reading habits. Criteria for judging such material is considered and practice in storytelling is provided.

206  **Adolescent Reading Interests (3)**
Reading and examination of a wide selection of books that could be used on the junior and senior high school level with criteria for judging such materials. An introduction to different approaches for outside and in-class reading, and the planning of a thematic unit on the adolescent level.

211  **Art for the Elementary Teacher (3)**
Methods and techniques of organizing and motivating art instruction for elementary school children. Creative work with material for the young child: crayon, cut paper, water color, and poster paint. Open only to juniors and seniors.

215  **Educational Psychology (3)**
An application of psychology to the educational environment. Includes units of study on cognitive and affective development, on learning theories and their application to teaching, on teaching exceptional children, on classroom management, and on human relations. Prerequisite: Psychology 201.

221  **Teaching Social Studies in the Elementary School (3)**
A study of the content, processes, and skills in social studies. Emphasis is on planning, implementing, and evaluating social studies activities for elementary school children. Includes introduction to social studies curriculum materials.

232  **Interpersonal Communication for the Elementary Teacher (3)**
Major emphasis is placed upon communication between student and teacher with attention given to the development of a speech model on the part of the teacher. Communication 214 is recommended. Open only to juniors and seniors.

262  **Creative Dramatics for Children (3)**
An introduction to informal dramatics for the classroom, especially elementary and junior high. Emphasis on dramatic activity requiring minimal equipment and facilities. Field experience required in area schools.

301  **Introduction to Exceptional Individuals (3)**
A study of the types of exceptional individuals. Emphasis is placed upon one's attitudes toward each of the exceptionalities and being aware of responsibilities Christians have toward the exceptional individual in education, the community, and the church. Prerequisite: Education 201 or Psychology 201.

302  **Introduction to Mental Retardation (3)**
A study of the classification, etiology, and diagnosis of the mentally retarded with emphasis upon the educational implications, programming, special teaching procedures, and life adjustment for mentally retarded. Various levels, types, and degrees of mental handicap are considered. Prerequisite: Education 301. Field experience in area schools required.

303  **Introduction to learning Disabilities (3)**
A course dealing with learning problems encountered by children in the regular classroom. Cause, diagnosis, and prescription constitute the body of the course. Prerequisite: Education 201 or Psychology 201.

304  **Introduction to Children with Emotional Problems (3)**
A study of causes of learning problems for children considered to be emotionally and/or socially handicapped. Prerequisite: Education 201 or Psychology 201.

305  **Curricular Materials for Exceptional Individuals (3)**
A study of curriculum designs for individuals who are mentally handicapped. Specialized materials are examined. Emphasis is given to techniques of adapting general teaching principles and practices to meet the needs of the handicapped. Prerequisite: Education 302 or 303.

306  **Diagnostic and Prescriptive Techniques in Special Education (3)**
A study of observational techniques, informal testing processes, and formal diagnostic tools with a study of remedial measures to implement after diagnosis. An introduction to psychological tests as well as speech and language tests. Prerequisite: Education 301.

311  **Materials of Elementary Music Education (3)**
Provides background skills and materials necessary for the prospective elementary teacher. Not open to those majoring or minoring in music.
322 Teaching Arithmetic in the Elementary School (3)
Mathematics for the student who plans to teach in the elementary school. Mathematics foundation, the number systems, and different methods of calculation are taught. Time is spent with methods, materials, goals, and means of evaluating the teaching of arithmetic.

323 Teaching Reading in the Elementary School (3)
A course designed to cover basic principles involved in the teaching of reading, plus suggested techniques, approaches, and materials to be used in teaching reading in the elementary school.

324 Teaching Language Arts in the Elementary School (2)
A basic course in the principles, techniques, materials, and methods of evaluating English grammar and composition, spelling, handwriting, listening, and speaking. Part of the professional semester and taken after student teaching.

325 Teaching Sciences in the Elementary School (2)
A basic course in the principles and techniques of teaching the natural sciences. The primary focus is on the development of materials for use in the elementary science classroom. Part of the professional semester and taken after student teaching.

326 Reading and Study Skills in Content Areas (3)
A study of ways in which materials, reading skills, and study strategies can be adapted to specific content areas in secondary education. Demonstrations are given to show functional techniques for incorporating reading and study skills into subject matter instruction.

327 Diagnosis and Remediation of Reading Difficulties (3)
A study of the causes of reading difficulties in the elementary and secondary school, their diagnosis and correction. Includes a practicum which will emphasize case study techniques involving the administration of various formal and informal tests and the interpretation of the test results along with practice in applying remediation procedures. Prerequisite: Education 323 or 326.

330 Human Relations in Education (3)
A course designed to develop an awareness of the responsibility of educators to establish educational programs that attempt to develop a sensitivity to and understanding of the different cultural/ethnic groups found in a pluralistic society. This course will include a history of the discrimination that many minority groups have encountered in North America and possible educational strategies for dealing with problems minority groups have encountered in the educational process.

350 Methods of Teaching Art (3)
Methods and techniques of organizing and motivating art on the secondary school level. Media explored depends on the needs and interests of the class.

351 Methods of Teaching Biology (3)
A review of recent trends in biology teaching. Use of audio-visual materials pertinent to biology, methods of evaluation, laboratory techniques, and textbook evaluations are included. Students give several class presentations and observe actual teaching situations.

352 Methods of Teaching Business Education (3)
Examination of the role of business education in the curriculum and current concerns in business education. Study of methods and materials for courses in business education at the secondary and higher education levels.

353 Methods of Teaching Chemistry (3)
A review of recent trends in chemistry teaching. Use of audio-visual materials pertinent to chemistry, methods of evaluation, laboratory techniques, and textbook evaluations are included. Students give several class presentations and observe actual teaching situations.

354 Methods of Teaching English (3)
Discussion of a Christian approach to the teaching of English. Methods and approaches to teaching literature, language, and composition, as well as micro-teaching in these areas. Attention is given to lesson, unit, course, and curriculum planning and to the use of audio-visual materials.

355 Methods of Teaching a Second Language (3)
Presentation of various methods of teaching a second language. This course will include teaching of listening, speaking, reading, and writing skills. Phonetics, morphology, syntax, meaning, vocabulary, culture, and literature will also be emphasized. A survey of ESL and foreign language materials will be included. Prerequisite: Linguistics 201 or departmental approval. (Offered alternate years.)

356 Methods of Teaching History (3)
Discussion of a Christian approach to the teaching of history. Emphasis is on current methods of teaching history and consideration of practical suggestions in classroom procedure.
357 Methods of Teaching Mathematics (3)
Methods of effective teaching of mathematics on the secondary level. Prospective teachers attain understanding of the basic mathematics taught at the secondary level.

358 Methods of Teaching Speech (3)
A study of the concerns of the speech teacher in the secondary school: developing speech courses, preparing objectives, constructing units, evaluating textbooks, and coaching and directing forensic activities. Previous experience or course work in oratory, oral interpretation, and debate is desirable. Students lacking this experience do additional study or reading.

359 Methods of Teaching Physics (3)
A review of recent trends in physics teaching. Use of audio-visual materials pertinent to physics methods of evaluation, laboratory techniques, and textbook evaluations are included. Students give several class presentations and observe actual teaching situations.

364 Issues in Education (3)
Critical examination of contemporary problems and trends in education and discussion and critique of the effect of traditionally defined philosophies of education on the present educational system.

372 Student Teaching — Elementary (9)
Students work full days with qualified teachers in the elementary schools. Activities include observing, teaching, and participating in the schools' activities. Prerequisites: requirements as stated in the TEACHER EDUCATION PROGRAM section of the catalog.

374 Student Teaching — Secondary (9)
Same as the above except that teaching is done in the secondary schools.

391 Individual Studies (3)
Open to qualified juniors and seniors with permission from the department. See the catalog section "Individual Studies" for application procedures and policies governing individual studies.

392 Individual Studies (3)
Same as Education 391.

430 Human Relations in Education (3)
A course designed to develop an awareness of the responsibility of educators to establish educational programs that attempt to develop a sensitivity to and understanding of the different cultural/ethnic groups found in a pluralistic society. This course will include a history of the discrimination that many minority groups have encountered in North America and possible educational strategies for dealing with the problems minority groups have encountered in the educational process. (For graduates only.)

Elementary Education
Teaching Major: Education 105, 201, 202, 211, 215, 221, 311, 322, 323, 324, 325, 364, 372 and one elective selected from the following: Communication 101, 212, Education 205, 232, 262, 301, 303, 330, Geography 201, History 201, 202, Political Science 212, Psychology 205.
For complete listing of these courses by titles see the TEACHER EDUCATION PROGRAM section of the catalog.

For the Teaching Minor see pages 57-59.

Engineering
Core (common to all majors)—
Mathematics 112, 113, 201, 204, and one course chosen from Mathematics 203, 206, 209, 309, 311, or 315; Physics 125, 126, 215; Chemistry 103, 104; Computer Science 102; Economics 201; Engineering 101, 105, 202, 210, 212, 390.

Mechanical Engineering Major—
Core: Engineering 206, 211, 301, 302, 303, 311, 312, 313, 315, 320, and one engineering course chosen from Engineering 350-359.
Engineering Science, General Major —
Core; three engineering courses providing a coherent sequence as approved by the Engineering Department; three courses chosen from the natural sciences and having approval of the Engineering Department.

Engineering Science, Physics Emphasis—
Core; Chemistry 301; Physics 216, 335, 336; three courses chosen from Physics 206, 325, 326, and Chemistry 302; three engineering courses providing a coherent sequence as approved by the Engineering Department.

Engineering Science, Chemistry Emphasis —
Core; Chemistry 201, 202, 301, 302, 311, 391, and two courses chosen from Chemistry 205, 312, 321; three engineering courses providing a coherent sequence as approved by the Engineering Department.

Engineering Science, Agriculture Emphasis —
Core; Agriculture 101, 102, 201, 221, and two elective courses in agriculture; three engineering courses providing a coherent sequence as approved by the Engineering Department.

Engineering Science, Business Administration Emphasis—
Core; Business Administration 201, 202, 205, 313, 325, and one elective business administration course; Economics 202, 305; three engineering courses providing a coherent sequence as approved by the Engineering Department.

101 Engineering Drawing (3)
Orthographic projection, auxiliary view, sectioning, dimensioning, isometric and oblique drawing. Six hours of drawing per week.

102 Descriptive Geometry (3)
Development of space perception through a study of spatial and geometric relationships of points, lines, surface, and solids using primary and secondary auxiliary views. Graphic solutions of engineering problems. Six hours of drawing per week.

105 Engineering Principles (3)
An introduction to engineering as a profession and as a problem solving activity. Focus is on the application of basic principles of physics and chemistry to the quantitative solution of current engineering design problems. Perspectival and professional issues are discussed.

202 Elements of Material Science (3)
An introductory course in the chemistry of engineering materials including crystals, amorphous solids, and polymers. Prerequisite: Chemistry 104.

205 Electrical Circuit Theory (4)
A class and laboratory course dealing with the basic concepts of DC and AC circuit analysis. The class work includes loop and node analysis, network theorems, resonance mutual inductance and polyphase circuits. The laboratory work emphasizes basic measurement techniques. Prerequisites: Computer Science 102, Mathematics 113.

206 Electronics (4)
This course is an introduction to electronic circuits and devices, particularly pn junction diodes, bipolar transistors and field-effect transistors. The elementary concepts of electronic device physics, transistor circuit biasing, and equivalent circuits are covered. Basic circuits for performing the electronic functions of amplification and rectification are studied. Prerequisite: Physics 126.

210 Statics and Dynamics (4)
Objectives include an understanding of equilibrium of particles and rigid bodies subject to concentrated and distributed forces, the mathematics of the motion of particles and rigid bodies, and the relation of forces and motions of particles. Four classes per week. Prerequisites: Mathematics 113, Physics 126.

211 Kinematics and Dynamics of Machinery (3)
The engineering design approach is applied to machines such as: cam and follower, speed changer, geared transmission, planetary gear systems and linkages for generating specific types of motion. Graphical and analytical methods are used. Prerequisite: Engineering 210.
212 **Strength of Materials (3)**
Objectives include an understanding of the kinds of stress and deformation and how to determine them in a wide range of simple, practical mechanical problems, and of the mechanical behavior of materials under various load conditions. Prerequisite: Engineering 210.

301 **Thermodynamics (3)**
A course in thermodynamic fundamentals. Among those principles introduced are the first and second laws of thermodynamics, physical properties of pure substances, entropy, availability and irreversibility, gas mixtures, and combustion. Prerequisites: Mathematics 113, Physics 126.

302 **Fluid Mechanics (3)**
Introduction to the basic principles of conservation of mass, momentum and energy as they apply to engineering systems which utilize fluids. Introduction to boundary layer theory. Prerequisites: Mathematics 204, Physics 126.

303 **Heat Transfer (3)**

311 **Instrumentation and Analysis (4)**
A laboratory and lecture course in instrumentation, measurement and engineering analysis, primarily for mechanical engineering students. Programming and interfacing a microprocessor with such instruments as thermocouples, flow-meters, strain gauges are included. Prerequisite: Engineering 212.

312 **Mechanical Engineering Lab I (3)**
A laboratory course for mechanical engineering students. Emphasizes the use of fundamental principles and instrumentation systems for the analysis and evaluation of mechanical devices and systems. Prerequisite: Engineering 311.

313 **Mechanical Engineering Lab II (3)**
An advanced laboratory course for mechanical engineering students. Includes the testing and evaluation of complete mechanical systems. Prerequisites: Engineering 302, 303, 312.

315 **Machine Design (3)**
Topics covered include vibration and introduction to automatic control theory, analysis, selection and design of machine elements, theory of machines. Prerequisite: Engineering 211.

320 **Metallurgy (3)**
Introduction to physical metallurgy including such topics as X-ray diffraction, basic dislocation theory, deformation of metals, grain boundaries, diffusion, nucleation, hardening, and strengthening processes. Prerequisite: Engineering 202.

390 **Technology and Society (3)**
An in-depth examination and critique of the relationship of technology to other aspects of modern Western society. The contributions of such thinkers as Ellul, Grant, Schumacher, Wiener, and White are examined using the reformed philosophical approach developed by Dooyeweerd, Van Riessen, Schuurman, and others in the Kuyperian tradition. Prerequisites: Philosophy 201, Engineering 105.

350 **Solar Energy Engineering (3)**
An elective course concerned with the use of solar energy for distillation, pool heating, domestic water heating, and space heating and cooling. The thermal processes by which solar radiation is absorbed by a surface, converted into heat, distributed, and stored will be studied. Calculation procedures for determining the heat loss of buildings, and the development of computer models will also be covered. Prerequisites: Computer Science 102, Engineering 303.

351-359 **Special Topics in Mechanical Engineering (3)**
Elective courses designed to treat particular topics in greater detail than would be done in any of the above courses. Topics will depend on the mutual interest of students and staff.

**English**

General Major — English 201-202, or 207-208; five courses from English 312, 314, 315, 316, 317, or 318; Theatre Arts 364 or 365 and three courses beyond English 200 or four courses beyond English 200.
### Teaching Major — (Secondary)

English 201-202; one course from English 301, 302, 303; four courses from English 312, 314, 315, 316, 317, 318; English 391; Theatre Arts 364 or 365 and one course beyond English 200 or two courses beyond English 200; English 336; Library Science 206.

**Approval Area**

45—English

### Teaching Minor— (Secondary)

English 201-202; one course from English 301, 302, 303; one course from English 312, 314, 315, 316, 317, or 318; English 336; Theatre Arts 364 or 365 and one course beyond English 200 or two courses beyond English 200.

**Approval Area**

45—English

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>101</td>
<td>Grammar and Composition (3)</td>
<td>A review of traditional grammar and of the principles of writing. Studies of model and student essays. Seven-eight writing assignments include a research paper. Practice in writing description, narration, exposition, and persuasion.</td>
</tr>
<tr>
<td>200</td>
<td>Responding to Literature (3)</td>
<td>Selected fiction, poetry, and drama from American and World Literature. Stress on appreciation and evaluation of these significant works.</td>
</tr>
<tr>
<td>201</td>
<td>American Literature (3)</td>
<td>Selected prose and poetry of the Puritans and Neo-Classicals, and an extensive study of the American Romantics: Poe, Hawthorne, Emerson, Thoreau, and Whitman.</td>
</tr>
<tr>
<td>202</td>
<td>American Literature (3)</td>
<td>A study of the rise of early American realism (Howells, James, Twain) naturalism (Crane, Dreiser) and early 20th Century fiction and poetry (Hemingway, Faulkner, Eliot, Frost).</td>
</tr>
<tr>
<td>203</td>
<td>American Literature (3)</td>
<td>A study of fiction and poetry since the 1930's (O'Connor, Updike, Malamud, Lowell, Roethke, etc.)</td>
</tr>
<tr>
<td>205</td>
<td>Canadian Literature (3)</td>
<td>A study of major Canadian fiction writers and poets since 1945, with particular attention paid to recurring themes in modern Canadian literature.</td>
</tr>
<tr>
<td>207</td>
<td>World Literature (3)</td>
<td>The literature studied is from the Greek, Roman, Medieval, and Renaissance periods. All writings are studied in English translation. A paper is required.</td>
</tr>
<tr>
<td>208</td>
<td>World Literature (3)</td>
<td>In this course, masterpieces of European authors from the seventeenth to the twentieth Century will be read and discussed. All readings are in English. A paper is required.</td>
</tr>
<tr>
<td>221</td>
<td>The Short Story (3)</td>
<td>Analysis and evaluation of American, British, and Continental stories within the historical framework of the developing genre.</td>
</tr>
<tr>
<td>222</td>
<td>Themes in Literature (3)</td>
<td>The aims of this course are to see how various writers of different cultures and eras expressed themselves on selected universal themes such as love, justice, religious experiences, and man's inhumanity to man.</td>
</tr>
<tr>
<td>301</td>
<td>Advanced Expository Writing I (3)</td>
<td>This course is designed to help both the person who has trouble getting started writing and the person who feels his prose is too wordy, too abstract, or too dead. In other words, the course will stress writing and rewriting, vision and revision. It will be geared for all students, regardless of their major. We will study how to use description, narration, and analogy to aid in exposition, how to describe a process, how to compare and contrast, how to classify. There will also be assignments in analysis, inductive writing, deductive writing, and in definition.</td>
</tr>
<tr>
<td>302</td>
<td>Advanced Expository Writing II (3)</td>
<td>This course will get at some of the same principles as English 301, but will make more use of prose</td>
</tr>
</tbody>
</table>
models. Students will work on clarifying the writing’s stance, establishing the writer’s tone, and gaining force by way of syntax.

303 Creative Writing I (3)
Student writing and evaluation of various types of poetry and short story. The workshop serves as the basic format.

304 Creative Writing II (3)
The course will consist of a special project in poetry, fiction, or drama, which the student will work at in personal consultation with the instructor. Prerequisite: English 303.

312 Shakespeare and Elizabethan Drama (3)
Primary emphasis on a study of Shakespeare’s plays: comedies, histories, and tragedies. Some attention to Shakespeare’s sonnets, to other Elizabethan playwrights, and to background. One paper.

314 Medieval, Renaissance and Metaphysical Literature (3)
Using the historical approach, the course will deal with Beowulf, Chaucer, Sidney, Spenser, Marlowe, Donne, Herbert, Herrick, Jonson, Crashaw, etc.

315 Restoration and Eighteenth Century Literature (3)
This course deals with the poetry, drama, and prose of Dryden, Bunyan, Congreve, Defoe, Butler, Swift, Addison, Steele, Pope, Johnson, Boswell, Thomson, Gray, Collins, Smart, Goldsmith, Crabbe, Cowper, and the English hymn (historical approach).

316 Literature of English Romanticism (3)
This course deals with the poetry and prose of Burns, Blake, Wordsworth, Coleridge, Lamb, Hazlitt, DeQuincey, Byron, Shelley, and Keats (historical approach).

317 Literature of the Victorian Age (3)
This course deals with the poetry, prose, and drama of Carlyle, Newman, J.S. Mill, Tennyson, Browning, Ruskin, Morris, Arnold, the Rossettis, Pater, Wilde, Thompson, Kipling, Dowson, and Hopkins (historical approach).

318 Modern British Literature (3)
This course deals with the poetry, prose, and drama of Hardy, Shaw, Conrad, Housman, Yeats, Forster, Woolf, Joyce, Lawrence, Eliot, Leavis, Orwell, Beckett, Pinter, Auden, and Thomas (historical approach).

321 The American Novel (3)
This course is a study of the American novel beginning with Charles Brockden Brown and extending through the nineteenth and twentieth centuries. Such authors as Hawthorne, Melville, Crane, Lewis, Hemingway, Faulkner, and Steinbeck will be studied. Lectures, discussions, papers.

322 The English Novel (3)
The study of the beginning of the English novel with Defoe, Richardson and Fielding, followed by a survey of nineteenth and early twentieth century novelists such as Bronte, Thackeray, Trollope, Dickens, Conrad, and Forster.

323 Modern and Contemporary English and American Novels (3)
The study of selected contemporary novels, American and English. Novelists include Bellow, Malamud, Potok, Updike, Burgess, and O’Connor.

333 History and Theory of Literary Criticism (3)
The course is an analytical review and critique of literary critical writings, with the ultimate aim of developing a Christian approach to literature.

335 History of the English Language (3)
The course surveys the Indo-European languages, the emergence, development and flowering of the Anglo-Saxon language, the seven English dialects, the Chaucerian dialect and the contributions of the Greek, Latin, and French language and cognate words.

336 English Grammar (3)
This course will present traditional and transformational grammar by showing how good writing illustrates facility with grammar and how good grammar helps for clarity in writing.

341-348 Special Topics (3)
These literature courses cover a different topic each year and each is designed to be a special interest course maximizing individual instructor strengths, interests, and competencies. Usually each course will study in-depth the works of two or three literary figures normally not covered as intensively.

391 Individual Studies (3)
Open to qualified juniors and seniors with permission from the department. See the catalog section "Individual Studies" for application procedures and policies governing individual studies.

392 Individual Studies (3)
Same as English 391.
French

101 Elementary French (4)
Emphasis on the basic structure of the language, core vocabulary, and pronunciation. Assigned work in the language laboratory.

102 Elementary French (3)
Continuation of 101. Prerequisite: one year of high school French or French 101.

201 Intermediate French (3)
A review of the grammatical structure of French, with an emphasis on the nature of language. Some attention given to listening, speaking and reading skills, vocabulary, and culture. Outside projects required. Prerequisite: two years of high school French or French 102.

207 World Literature (3)
See English 207. Students who wish this course to be listed as a French course will be assigned their paper based on French readings.

208 World Literature (3)
See English 208. Students who wish this course to be listed as a French course will be assigned their paper based on French readings.

251-258 Conversation (1)
A conversation course will be offered each year. The course is designed to give the student practice in listening and speaking. The content of the course will be altered each year. The class will meet two times a week; one hour of preparation per week. Prerequisite: French 101.

Geography

201 Introduction to Geography (3)
A basic introductory course in cultural geography.

German

General Major — German 201, 202, 206, 302, Linguistics 201; five elective courses from German 101, 102, 207, 208, 301, 341-348, 391, 392; and four semesters of conversation 251-258. Study abroad courses are recommended.

Teaching Major —
(Secondary)
German 201, 202, 206, 301, 302, 391; Linguistics 201; two elective courses, one of which must be in the area of literature from German 102, 207, 208, 341-348, 392; and four semesters of conversation 251-258. Study abroad courses are recommended.

Approval Area
55—German

Teaching Minor—
(Secondary)
German 201, 202, 206, 301, 302; one elective from 102, 341-348, 391, and two semesters of conversation 251-258. Study abroad courses are recommended.

Approval Area
55—German

101 Elementary German (4)
Emphasis on the basic structure of the language, core vocabulary, and pronunciation. Assigned work in the language laboratory.

102 Elementary German (3)
Continuation of 101. Prerequisite: one year of high school German or German 101.

201 Intermediate German (3)
A review of the grammatical structure of German, with an emphasis on the nature of language. Some attention given to listening, speaking and reading skills, vocabulary, and culture. Outside projects required. Prerequisite: two years of high school German or German 102.
202 Literary and Cultural Readings (3)
This course is designed to develop the reading skill and an appreciation for German culture and literature. Emphasis upon contemporary literature. Permission will be granted for individual readings in academic areas of interest to the student. Prerequisite: German 201 or its equivalent.

206 German Culture (3)
This course is designed to cover many aspects of the German way of life. There will be an emphasis on listening and speaking skills. Prerequisite: German 201 or its equivalent.

207 World Literature (3)
See English 207. Students who wish this course to be listed as a German course will be assigned their paper based on German readings.

208 World Literature (3)
See English 208. Students who wish this course to be listed as a German course will be assigned their paper based on German readings.

251-258 Conversation (1)
A conversation course will be offered each year. The course is designed to give the student practice in listening and speaking. The content of the course will be altered each year. The class will meet two times each week; one hour of preparation per week. Prerequisite: German 101.

301 German Phonology (3)
See Linguistics 301. The principles and universals of phonology will be studied. A direct application will be made to the German language.

302 Advanced German Grammar (3)
This course is designed especially for those who will be teaching the language or who desire a better understanding of the structure of the language. The scope of grammar will be approached systematically. Prerequisite: German 201 or its equivalent.

341-348 Special Topics (3)
The topics for these courses will be chosen from the areas of literature, advanced language studies, culture, or teaching methods. The offering of the course as well as the content will reflect student interest and need. Prerequisite: departmental approval.

391 Individual Studies (3)
Open to qualified juniors and seniors with permission from the department. See the catalog section “Individual Studies” for application procedures and policies governing individual studies.

392 Individual Studies (3)
Same as German 391.

Greek

101 Elementary Greek (4)
Basic structures of the language; relation to Latin and other Indo-European languages. Simple prose readings. (Freshman Pre-Sem students: Prerequisite Latin 201 or its equivalent.)

102 Elementary Greek (4)
Continuation of Greek 101.

201 Intermediate Greek (4)
Comprehensive review of syntax and forms. Readings from various classical authors.

202 Intermediate Greek (3)
Continuation of Greek 201. Readings from Plato's Apology.

301 New Testament Greek (3)
Introduction to Koine Greek, vocabulary building, readings from the Synoptic Gospels.

302 New Testament Greek (3)
Continuation of Greek 301. Readings from Acts and The Epistles.

341-348 Special Topics (3)
Courses under this title are designed by the department from year to year to reflect student demand and need. The content of the course will be from the areas of literature, philosophy, theology, archaeology, language, and art.

391 Individual Studies (3)
Open to qualified juniors and seniors with permission from the department. See the catalog section “Individual Studies” for application procedures and policies governing individual studies.
<table>
<thead>
<tr>
<th>COURSES OF INSTRUCTION 69</th>
</tr>
</thead>
</table>

392 Individual Studies (3)
Same as Greek 391.

### Hebrew

<table>
<thead>
<tr>
<th>Courses</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>101</td>
<td>Elementary Hebrew (4)</td>
<td>Introduction to the basic structure of the language; survey of the historical development of Hebrew in context of other Semitic languages; simple readings.</td>
</tr>
<tr>
<td>102</td>
<td>Elementary Hebrew (4)</td>
<td>Continuation of Hebrew 101. Orientation in reading the Hebrew Bible.</td>
</tr>
</tbody>
</table>

### History

**General Major —** History 201, 202, and eight history courses beyond History 102.

**Teaching Major —**

**(Secondary)** History 201, 202, 391; two courses from History 305, 309, 311, 312; and five history courses beyond History 102.

**Approval Areas**

72—American History
73—World History

**Teaching Minor—**

**(Secondary)** History 101, 102, 201, 202; two courses from History 305, 309, 311, 312; and two history courses beyond History 200.

**Approval Areas**

72—American History
73—World History

**Note:** If the Social Science teaching minor is also completed, the student will be eligible for 75—All subjects in History and Social Studies.

<table>
<thead>
<tr>
<th>Courses</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>101</td>
<td>Growth of Western Civilization (3)</td>
<td>A survey of Western Cultural development from its inception in the Near East, through Greece and Rome, the Early Church, the Renaissance and the Reformation.</td>
</tr>
<tr>
<td>102</td>
<td>Growth of Western Civilization (3)</td>
<td>Continuation of History 101. A survey of the dominant influences in Western Culture from the Reformation down to the present. The practical and ideological conflicts associated with the Enlightenment, the French Revolution, and subsequent periods of war and peace.</td>
</tr>
<tr>
<td>201</td>
<td>American History (3)</td>
<td>Colonization and its antecedents, the Revolution and the development of nationalism, westward expansion, Jacksonian Democracy, the rise of sectionalism, the slavery controversy and the Civil War.</td>
</tr>
<tr>
<td>202</td>
<td>American History (3)</td>
<td>Continuation of History 201. Reconstruction era, the problems of industrialization, the farm revolt, politics of the Gilded Age, the reform movement, the politics of prosperity and of depression, the United States as a great power, and the United States as leader of the Free World.</td>
</tr>
<tr>
<td>203</td>
<td>Ancient History (3)</td>
<td>The history of ancient Greece and Rome from the Minoan Age to the end of the Empire in the West, with special attention to the interaction of the Hellenic, Hellenistic, and Roman civilizations.</td>
</tr>
<tr>
<td>205</td>
<td>Medieval Europe (3)</td>
<td>History of Europe from the height of the Roman Empire in the second century to the end of the twelfth century. The decline of the Roman Empire, the rise of Islam, and the development of Medieval institutions will be emphasized.</td>
</tr>
<tr>
<td>206</td>
<td>Medieval Europe (3)</td>
<td>Continuation of History 205. History of Europe to 1500. Study of the rise of cities, the Italian Renaissance, political and religious developments preceding the Reformation.</td>
</tr>
<tr>
<td>207</td>
<td>Early Modern Europe to 1660 (3)</td>
<td>History of the Reformation and its effects, including the religious wars of the sixteenth and seventeenth</td>
</tr>
</tbody>
</table>
centuries, rise of Spain and Philip II, rise of France through Louis XIV, Tudor and Stuart England, and the revolutions of the seventeenth century.

208 **Early Modern Europe 1660-1815 (3)**
Continuation of History 207. Growth of overseas empires, rise of Russia and Prussia, eighteenth century England, the Enlightenment, French Revolution and the age of Napoleon.

209 **Nineteenth Century Europe (3)**
History of Europe from the Congress of Vienna to approximately 1890, with most emphasis on Western Europe. Stress will be on political, cultural, and social factors that have influenced European history since 1815. Attention will also be given to outstanding figures such as Metternich, Cavour, Bismarck, Marx, and Darwin.

210 **Twentieth Century Europe (3)**
Continuation of History 209. History of Europe from approximately 1890 to the present, with most emphasis on Western Europe. Focus will be upon such areas as the underlying causes of World War I, the political-social-economic-cultural upheavals between the wars, the impact of World War II, and the problems which face present-day Europe.

301 **England to 1714 (3)**
Development of English life and institutions from recorded beginnings to the end of the reign of Queen Anne. Special emphasis on Tudor and Stuart England. Prerequisite: junior or senior standing or permission of instructor.

302 **Great Britain from 1714 to the Present (3)**
Continuation of History 301. From the Hanoverian Succession to the present day. Prerequisite: junior or senior standing or permission of instructor.

303 **Modern Russia (3)**
Study of Russia in the nineteenth and twentieth centuries with concentration on internal developments. The revolutionary movements leading to the Communist revolution receive particular emphasis. Includes an examination of the Soviet system as it has evolved since 1917. Prerequisite: junior or senior standing or permission of the instructor.

305 **American Problems (3)**
A course designed to pursue in depth domestic relations that have had an important bearing upon the course of American history. The approach will be a combination of lectures, discussions, and reports emphasizing especially the historiographical material pertinent to each issue studied. Prerequisite: History 201-202 or permission of the instructor.

307 **Historiography (3)**
This course concerns itself with the nature and meaning of history and the nature of the historian’s task and responsibilities. There will be an emphasis upon review and evaluation of the various schools of history and of the philosophies of leading historians. Prerequisites: History 101-102, 201-202. Recommended for the senior year.

309 **Economic History of the U.S. (3)**
See Economics 309. This course may be taken for either history or economics credit. Prerequisite: permission of instructor.

311 **American Foreign Relations (3)**
A study of the foreign relations of the United States from the birth of the Republic to approximately 1890, emphasizing the major traditions, concerns, and issues of American foreign policy of the period. Prerequisite: History 201-202.

312 **American Foreign Relations (3)**
Continuation of History 311. A study of the foreign relations of the United States from approximately 1890 to the present, concentrating on overseas expansion, the two World Wars, and the Cold War. Prerequisite: History 201-202.

341-348 **Special Topics (3)**
Each of these courses is devoted to a different topic and each is designed to be a special interest course utilizing individual instructor strengths, interests, and competencies. Each course will be concerned with a topic or period of history not usually treated to any great extent in regularly scheduled courses.

391 **Individual Studies (3)**
Open to qualified juniors and seniors with permission from the department. See the catalog section “Individual Studies” for application procedures and policies governing individual studies.

392 **Individual Studies (3)**
Same as History 391.
Individual Studies

391 Individual Studies (3)
Individual study of a topic which is interdepartmental or which falls within a department which does not have an individual study option. Permission must be granted by the Associate Academic Dean.

392 Individual Studies (3)
Same as Individual Studies 391.

NOTE: For more information refer to pages 32-33 of the catalog.

Latin

101 Elementary Latin (4)
The basic structures of Latin; introductory prose readings.

201 Intermediate Latin (4)
Continued work in basic skills, stress on vocabulary. Reading of classical prose, some attention given to the nature of language and the relation of Latin to English and the Romance languages. Prerequisites: two years of high school Latin or Latin 101.

Library Science

Teaching Minor — (Secondary) Library Science 201, 202, 203, 204, 205, 206, 391.

Approval Area
86—Teacher Librarian

201 Library Organization and Administration (3)
A study of the basic principles in the organization and administration of a school library including the technical and educational duties of the school librarian.

202 Book Selection (3)
An introduction to book reviewing media, selection aids, bibliographies, and other tools essential to materials acquisition for a school library. Includes analysis of the criteria for book selection on the basis of the objectives for Christian education.

203 Reference and Bibliography (3)
The content and use of basic reference sources including dictionaries, encyclopedias, almanacs, periodicals, indexes, and bibliographies will be explored. Emphasis will be on the application of these sources to aid in the college assignments as well as the teaching of the basic reference skills to others.

204 Cataloging and Classification (3)
Fundamental principles and practical problems in classification, cataloging, and processing of materials applicable to the school library situation.

205 Children’s Reading Material (3)
A reading and examination of a wide selection of children’s books (approximately 55) and magazines useful in enriching the subject areas of the elementary school curriculum and in providing good reading habits. Criteria for judging such material will also be considered. Practice in story telling and similar activities related to the librarian and elementary teacher’s use of children’s literature in the library and classroom.

206 Adolescent Reading Interests (3)
A reading and examination of a wide selection of books (approximately 50) that could be used on the junior and senior high school level with criteria for judging such material. An introduction to different approaches for outside and in-class reading, and the planning of a thematic unit on the adolescent level.

391 Individual Studies (3)
Open to qualified juniors and seniors with permission from the department. See the catalog section “Individual Studies” for application procedures and policies governing individual studies.

392 Individual Studies (3)
Same as Library Science 391.
Linguistics

201 **Concepts of Language (4)**
Deals with the nature of language and fundamental linguistic concepts such as the origin of language, diversity of languages, relationships between languages, and the history of Indo-European languages. Pre-requisite: Foreign Language 101 or its equivalent. Open to freshmen with permission of language department.

301 **Phonology (3)**
A study of the human speech sounds and sound systems. In the beginning of the course the universal aspects of human speech will be emphasized; then, various applications will be developed in the English language or in various modern languages offered by the foreign language department. (See e.g., German 301).

371 **Practicum of English as a Second Language (ESL) (3)**
This course will offer students the opportunity to practice the principles and methods of teaching ESL. Emphasis will be given to the following areas: pronunciation, conversation, reading, and composition. Prerequisite: departmental approval.

Mathematics

General Major — Mathematics 112, 113, 200, 201, 203, 304, 311; and three electives selected from mathematics courses numbered 200 or above or Computer Science 102 or 111.

Teaching Major —
(Secondary) Mathematics 112, 113, 200, 201, 203, 304, 311, 391; and two electives selected from mathematics courses numbered 200 or above or Computer Science 102 or 111.

Approval Area
58—Mathematics

Teaching Minor —
(Secondary) Mathematics 112, 113; four electives selected from mathematics courses numbered 200 or above or from Computer Science 102 or 111.

Approval Area
58—Mathematics

106 **Elements of Mathematics (3)**
An introduction to the contents and methods of mathematics, current applications of mathematics, and some discussion of its historical development.

107 **Elementary Statistics (3)**
An elementary course in probability theory, statistical techniques and methods, and the application of these techniques to a variety of fields.

109 **Mathematics for the Elementary Teacher (3)**
An elementary study of sets, cardinal numbers, the integers, logic, mathematical systems, and the real numbers as basic concepts of elementary school arithmetic. Prerequisite: Mathematics 106 or two years of high school mathematics.

110 **College Algebra (3)**
This course covers standard topics in college algebra. The study of functions and functional notation is emphasized in preparation for calculus. Prerequisite: three semesters of high school algebra.

112 **Analytic Geometry and Calculus (4)**
A review of analytic geometry and an introduction to the basic concepts of calculus: limits, derivatives, integrals, differentiation and integration, and applications. Prerequisite: Mathematics 110 or equivalent.

113 **Calculus and Analytic Geometry (4)**
Continuation of Mathematics 112; a study of the definite integral, formal differentiation and integration, transcendental functions, sequences, series, and applications. Prerequisite: Mathematics 112.
200 **Calculus Theory (3)**
A study of the structure of logical methods, the nature of proof and the application of these structures to the foundations of single variable calculus.

201 **Multivariable Calculus (3)**
A study of vector-valued functions, solid analytic geometry, the differential calculus of functions of several variables, line integrals, and multiple integration.

203 **Elementary Linear Algebra (3)**
A study of n-dimensional vector spaces, linear transformations, matrices, and determinants with particular emphasis on their applications in other areas. Prerequisite: Mathematics 113.

204 **Differential Equations (3)**
An introduction to the theory and techniques of solving elementary differential equations and the use of these techniques in applied problems. Prerequisite: Mathematics 113.

206 **Statistical Methods (3)**
An introduction to the basic concepts of the techniques of statistical analysis; the mathematical development of these techniques and their application to data analysis. Prerequisite: Mathematics 112.

207 **Number Theory (3)**
An introduction to number theory including congruences, residues, Diophantine equations, prime numbers and their distribution, and properties of number-theoretic functions. Prerequisite: Mathematics 112.

208 **Modern Geometry (3)**
A study of the basic concepts of euclidean, non-euclidean, finite and projective geometries. Prerequisite: Mathematics 112.

209 **Numerical Analysis (3)**
A study of numerical methods for integration, differentiation, calculus of finite differences, and applications using the computer. Prerequisites: Mathematics 112 and Computer Science 102 or 111.

210 **History of Mathematics (3)**
A study of the history of the development of basic mathematical concepts, the various views of mathematics and the schools of mathematical thought. Prerequisite: Mathematics 112.

304 **Abstract Algebra I (3)**
An introduction to algebraic structures: groups, rings, integral domains, and fields. Prerequisites: Mathematics 201, 203.

305 **Abstract Algebra II (3)**
Continuation of Mathematics 304. A more extensive study of algebraic structures including polynomial fields, ideals, quotient rings, and vector spaces. Prerequisite: Mathematics 304.

309 **Probability Theory (3)**
An introduction to classical and measure theoretic foundations of probability; random variables, distribution, functions, moments, and central limit problems. Prerequisite: Mathematics 201.

311 **Advanced Calculus I (3)**
A rigorous study of functions of one and several variables, limits, continuity, differentiation, sequences, series, mappings, and transformations. Prerequisite: Mathematics 201.

312 **Advanced Calculus II (3)**
Continuation of Mathematics 311. A rigorous study of the theory of integration; the line and surface integrals and infinite series of functions. Prerequisite: Mathematics 311.

315 **Complex Analysis (3)**
A study of the complex number field, functions of complex numbers, integration, differentiation, power series, residues and poles, and conformal mappings. Prerequisite: Mathematics 201.

317 **Topology (3)**
The definition and study of various topologies and their applications in real analysis. Includes the following topics: bases, subbases, connectedness, compactness, completeness, and separation. Prerequisite: Mathematics 201.
341-348 Special Topics (3)
These mathematics courses cover different topics which maximize individual instructor strengths, interests, and competencies. Each course will deal with a topic in mathematics not usually treated to any great extent in regularly scheduled courses.

391 Individual Studies (3)
Open to qualified juniors and seniors with permission from the department. See the catalog section "Individual Studies" for application procedures and policies governing individual studies.

392 Individual Studies (3)
Same as Mathematics 391.

Music
General Major — Music 103, 104, 203, 204, 207, 208, 308, 309, 315; a two-course sequence from Music 240-41, 250-51, 260-61, 270-71; six ensemble credits; two elective courses in music selected from one of the following areas:
2. Theory-Composition: Music 307 and one individual studies course in music.
3. Organ: Music 211 or 212; Music 360, 361.
7. Church Music: Music 210, 211, 212.
NOTE: Performance majors (3-6) must audition for acceptance into the program by the end of the sophomore year. Performance majors will be required to present a full senior recital and a half junior recital.

Teaching Major—
(Choral) Music 103, 104, 203, 204, 207, 208, 309, 312, 313, 315, 317; one course from Music 210, 211, 212, 305, 307, 308; Music 240; one course from Music 241, 250, 260, 270; six ensemble credits; Music 19.

Approval Area
60—Music

Teaching Major—
(Instrumental) Music 103, 104, 203, 204, 207, 208, 305, 309, 312, 315, 316; Music 270; one course from Music 271, 240, 250, 260; one semester of class voice (Music 14); six ensemble credits; Music 19.

Approval Area
60—Music

Teaching Minor—Music 103, 104, 308, 315; one course from Music 313, 314; two courses from Music 203, 204, 207, 208; two semesters of private lessons; four ensemble units; Music 19.

Approval Area
60—Music

Church Music Minor—Music 103, 104, 210, 211, 212, 315; four semesters of private lessons or ensembles.
10 Chorale (1)
11 Concert Band (1)
12 Concert Choir (1)
13 Private Instruments—For Non-Majors (1)
14 Private and Class Voice—For Non-Majors (1)
15 Private Piano—For Non-Majors (1)
16 Private Organ—For Non-Majors (1)
17 Small Vocal Ensemble (½)
18 Small Instrumental Ensemble (½)
19 Piano Proficiency (0)
20 Orchestra (1)
103 Introduction to Music (4)
A basic course in music theory with application to developing perception in listening to music. This course lays the foundation for basic musicianship and further studies in music theory through the development of rotation skills, a functional musical vocabulary, and practical aural skills.
104 Music Theory (4)
Continuation of Music 103.
108 Music Literature (3)
A general course designed to develop intelligent discrimination in the listener. Basic elements and vocabulary structural principles and aesthetic content of music with reference to the various forms and styles will be considered. Listening will be stressed. Not open to music majors or minors.
203 Theory, Advanced (4)
The study of altered chords and ninth, eleventh, and thirteenth chords. Contemporary theories and compositional practices with some actual composing. Meets four times per week.
204 Music Theory, Advanced (4)
An examination of the dissolution of the major-minor tonal system and the resulting new theoretical bases of twentieth-century music. Aural skills related to the analytical and written skills will be pursued.
207 Music History (3)
The development of the art of music, showing the cumulative values of music progress through the great epoches in history and the relationship of music to the political, economic, and cultural conditions of these areas.
208 Music History (3)
Continuation of Music 207.
210 History of Music in the Church (3)
A study of church music from ancient times to the present. Special attention will be given to the development of American hymnody.
211 Worship and Liturgy (3)
Inquiry into the relationship of music to principles, patterns, and practices of worship. Biblical-historical perspectives will be applied in analysis of current worship patterns and in building worship and liturgy models.
212 Church Music Organization and Literature (3)
A study of the organization of the church music program and appropriate music literature for organ, voice, and instruments.
240 Private and Class Voice (3)
A three semester sequence of voice lessons. Students will register for the course each semester and receive credit upon completion of the third semester. (Open only to music majors.)
241 Private Voice (3)
A three semester sequence of voice lessons beyond 240. Prerequisite: Music 240.
250 Private Piano (3)
A three semester sequence of piano lessons. Students will register for the course each semester and receive credit upon completion of the third semester. (Open only to music majors.)

251 Private Piano (3)
A three semester sequence of piano lessons beyond 250. Prerequisite: Music 250.

260 Private Organ (3)
A three semester sequence of organ lessons. Students will register for the course each semester and receive credit upon completion of the third semester. (Open only to music majors.)

261 Private Organ (3)
A three semester sequence of organ lessons beyond 260. Prerequisite: Music 260.

270 Private Instruments (3)
A three semester sequence of instrument lessons. Students will register for the course each semester and receive credit upon completion of the third semester. (Open only to music majors.)

271 Private Instruments (3)
A three semester sequence of lessons on one instrument beyond 270. Prerequisite: Music 270.

305 Arranging (3)
A detailed study of orchestral, band, and choral arranging.

307 Composition (3)
A study of compositional methods, with an emphasis on contemporary techniques.

308 Music Literature (3)
This course is designed for the music major, but open to the non-major by consent of the instructor. Intensive and extensive listening will be required. A basic repertory background in several media will be explored. The compositions will be examined and discussed in terms of salient style features and form. Individual projects will be assigned.

309 Form and Analysis (3)
A practical and analytical course in the structure of music forms.

312 Teaching Music in the Elementary School (3)
A course designed to provide a detailed study of methods and materials of music education in the elementary school.

313 Vocal Music Education in the Secondary School (3)
Teaching techniques and materials for the prospective vocal music education, including advanced choral conducting.

314 Instrumental Music Education in the Secondary School (3)
Teaching techniques and materials for the prospective instrumental music educator, including advanced instrumental conducting.

315 Conducting (3)
A study of choral and instrumental conducting with corresponding literature. Meets three times per week.

316 Pedagogy (3)
Methods of teaching strings, woodwinds, brass, and percussion. A separate semester will be devoted to each area. Students will register and receive credit for the course in the last of the required semesters.

317 Pedagogy (3)
Methods of teaching voice and two instrumental groups from strings, woodwinds, brass, and percussion. A separate semester will be devoted to each of the three areas. Students will register and receive credit for the course in the last of the required semesters.

340 Advanced Voice Study (3)
Advanced voice literature and recital preparation. (By audition only.)

341 Advanced Voice Study (3)
Continuation of Music 340.

342-348 Special Topics (3)
These courses will vary from year to year, and are designed to meet special student interests and to utilize staff strengths and the talents of experts in the community. Each course will cover material not usually treated in regularly scheduled courses.
350 **Advanced Piano Study (3)**
Advanced piano literature and recital preparation. (By audition only)

351 **Advanced Piano Study (3)**
Continuation of Music 350.

360 **Advanced Organ Study (3)**
Advanced organ literature and recital preparation. (By audition only)

361 **Advanced Organ Study (3)**
Continuation of Music 360.

370 **Advanced Instrumental Study (3)**
Advanced instrumental literature and recital preparation. (By audition only)

371 **Advanced Instrumental Study (3)**
Continuation of Music 370.

391 **Individual Studies (3)**
Open to qualified juniors and seniors with permission from the department. See the catalog section "Individual Studies" for application procedures and policies governing individual studies.

392 **Individual Studies (3)**
Same as Music 391.

**Natural Science**

General Major — Biology 115, 122, 200, 213, 235, and two elective courses in biology; Chemistry 103, 104, 201, 202, 203, 205, 311; Physics 115, 116; Mathematics 112.

Teaching Major —
(Secondary) Biology 115, 122, 200, 213, 235, and one elective course in biology numbered 200 or above; Chemistry 103, 104, 201, 202, 203, 205, 311; Physics 115, 116; Mathematics 112; one course from Biology 391 or Chemistry 391.

Approval Areas
63—Biology  
64—Chemistry  
65—General Science  
88—Physical Science (With Astronomy 103, 104, Physical Science 110 or 201.)

**Philosophy**

General Major — Philosophy 201, 301, 302, 303; one course from Philosophy 307, 312; five elective courses in philosophy.

201 **Perspectives in Philosophy (3)**
An introduction to the nature, task, and basic problems of philosophy, with special examination of its role in contemporary culture.

202 **Logic (3)**
An introduction to the principles of right reasoning with work in both the deductive and inductive methods of logic.

302 **History of Ancient and Medieval Philosophy (3)**
A historical survey of philosophical problems and movements from the early Greeks to the Renaissance. Readings in primary sources and a research paper.

303 **Modern Philosophy (3)**
A survey of philosophical problems and movements from the end of the fifteenth century to the beginning of the nineteenth century. Readings in mainly primary sources and a research paper.

307 **Contemporary European Philosophy (3)**
A survey of philosophical problems and movements in Europe from the beginning of the nineteenth century to the present. Readings in mainly primary sources and a research paper.
309 **History and Development of Christian Philosophy (3)**
Analysis of the development of Reformational Philosophy within the context of the history of Western thought, particularly since the Reformation. Prerequisite: Philosophy 201. Philosophy majors should complete the history of philosophy sequence before taking Philosophy 309.

310 **Systematics of Christian Philosophy (3)**
An in-depth study of selected topics in the systematic philosophy of mainly Dooyeweerd, Vollenhoven, and Stoker. Specific attention will be given to differences between Christian thought and various influential non-Christian systems of thought.

341-348 **Special Topics (3)**
Each of these courses is designed to be a special interest course utilizing individual strengths, interests, and competencies. Each topic will be concerned with material not usually treated to any great extent in regularly scheduled courses.

391 **Individual Studies (3)**
Open to qualified juniors and seniors with permission from the department. See the catalog section “Individual Studies” for application procedures and policies governing individual studies.

392 **Individual Studies (3)**
Same as Philosophy 391.

### Physical Education

**General Major** — Physical Education 201, 203, 204, 205, 207, 208, 209, 304, 305; two courses from Physical Education 206, 210, 211, 212, 213, 306.

**Teaching Major** —
(Secondary) Physical Education 11, 201, 203, 204, 205, 207, 208, 209, 304, 305, 306, 391; one course from Physical Education 206, 210, 211 212, 213. (For vertical certification Education 105 is also required.)

**Approval Areas**
62 — Physical Education
(Coaching Endorsement 55)

**Teaching Minor** —
(Secondary) Physical Education 11, 203, 204, 205, 207, 212, 213; two courses from Physical Education 209, 304, 305, 306, 391.

**Approval Areas**
62 — Physical Education
(Coaching Endorsement 55)

10 **Concepts in Physical Education (1) P/F**
Required of all students preferably in their freshman year. Designed to help each student evaluate his/her own physical needs and strengths, to help plan a personal exercise and activity program, and to develop a broad concept of fitness and health from a Christian view of man.

11 **Swimming (Cr.)**
Several sections are offered each semester. Each section is divided for non-swimmers, intermediate, and advanced swimmers. Senior Life Saving and WSI certificates can be earned through special arrangements. This course may be repeated.

14 **Golf-Badminton (Cr.)**
Development of skills, techniques, and participation in beginning golf and badminton. Students must furnish clubs for playing golf. No greens fees for class work.

15 **Gymnastics-Tumbling (Cr.)**
Development of beginning and intermediate skills and techniques in gymnastics and tumbling. Course includes work on free exercise, parallel bars, balance beam, sidehorse, vaulting, trampoline, rings, and uneven bars.

17 **Power Volleyball (Cr.)**
Development of skills, techniques, and participation in power volleyball.
18 **Tennis-Bowling (Cr.)**  
Development of skills and knowledge in tennis and bowling necessary for recreational purposes of beginner.

19 **Personal Physical Fitness (Cr.)**  
Knowledge, development, and maintenance of personal physical fitness through the use of "aerobics", calisthenics, the "exergenie", etc.

20 **Volleyball-Pickleball (Cr.)**  
Development of skills and techniques in volleyball and pickleball as recreation and leisure time activities.

21 **Weight Training-Jogging (Cr.)**  
A well-round weight training and jogging program will be emphasized with carry-over recreational emphasis.

22 **Slimnastics (Cr.)**  
Introduction to programs for weight control. Exercise activities for the purpose of muscular fitness. Rhythmic activities, pool activities, trampoline, and partner activities.

23 **Bicycling-Table Tennis-Racquetball-Handball (Cr.)**  
Emphasis will be placed on bicycle safety and recreational use of bicycling. Skills and techniques of table tennis, racquetball, and handball will be taught.

24 **Folk Dances (Cr.)**  
An opportunity for students to participate in several dances from various countries (including the American Square Dance).

25 **Personalized Skill Development (Cr.)**  
A student may earn credit in a unique skill area that is not taught at Dordt. Ex: Judo, Karate, Scuba diving, etc.

26 **Adaptive Physical Education (Cr.)**  
Restricted activity for students with physical disabilities. Prerequisite: recommendation by a medical doctor.

201 **Introduction to Physical Education (3)**  
Intending to orient the student to professional work in the field of physical education. Acquaints the student with outstanding leaders and their contributions, the history and the changing philosophies of physical education.

203 **Anatomy and Kinesiology (3)**  
A study of the skeletal systems, nervous and muscular systems, with special emphasis on the mechanics of body motion and the relationship of anatomic structure to principles of physical education.

204 **Physiology of Physical Activity (3)**  
A study of muscles, blood, heart, blood vessels, lungs and respiratory mechanism. Detailed study will be focused on the chronic and acute adjustments of these organs to exercise of varying intensities. Prerequisite: Physical Education 203.

205 **Organization of Physical Education and Intramurals (3)**  
This course will provide the student with the necessary background in organizing and administering a desirable curriculum in physical education (elementary through high school) including intramurals.

206 **Recreational Leadership (3)**  
Methods and materials suitable for use in adult recreation, municipal and school playgrounds, community centers and camps.

207 **Care and Prevention of Athletic Injuries (3)**  
A study of accepted methods used to prevent athletic injuries. Instruction in administering first aid practices in emergencies. First semester with an emphasis on the elementary school child, second semester focusing on participants in interscholastic sports. (This course is not open to freshmen.)

208 **Tests and Measurements in Physical Education (3)**  
A study which includes elementary statistical procedures; the preparation and administration of skills, physical fitness, body mechanics, growth, motor ability, and written tests; and the use of these and other evaluative materials in the field.

209 **Personal and Community Health (3)**  
A study of the physical, mental, and social dynamics of health with attention to the development of wholesome attitudes and habits of living; the recognition of problems requiring group action; and the methods of solving community health problems.
210 Community and School Recreation (3)
The development of the principles; history and philosophy governing recreation in the school and community along with the place of the agencies that are involved in community recreation will be studied.

211 Nutrition and Physical Fitness (3)
The course is designed to study body needs and processes during exercise. Meal planning, weight control, and diets for special conditions will be discussed.

212 Coaching Theory of Basketball and Track and Field (3)
Eight weeks will be devoted to each sport. Emphasis on coaching skills, philosophies, and modern techniques of basketball and track. (Open to juniors and seniors only.)

213 Coaching Theory of Baseball, Football, and Soccer (3)
Approximately five weeks will be devoted to each sport. Emphasis on coaching skills, philosophies, and modern techniques of baseball, football, and soccer. (Open to juniors and seniors only.)

304 Skills and Methods in Individual Sports and Games (3)
This course has a fourfold purpose. 1) To study the methodology associated with the teaching of team and individual sports in physical education. 2) To allow each student to experiment with the various methods in a laboratory setting. 3) To develop skill in the analysis of teaching in physical education. 4) To develop personal participation skills. The following activities will be taught: golf, gymnastics, tennis, and wrestling. (Open only to professional physical education students.)

305 Skills and Methods in Team Sports and Games (3)
This course is a continuation of Physical Education 304. It is to be taken in the second semester of the same year in which Physical Education 304 was taken. Additional activities to be taught are: floor hockey, soccer, softball, speedball, and volleyball. Prerequisite: Physical Education 304. (Open only to professional physical education students.)

306 Methods and Skills in Leisure Sports and Games (3)
The course, open only to professional physical education students, will place emphasis on how to teach the following activities: bowling, badminton, games and relays, rhythmics, racquetball, archery, weight training, jogging, handball, and a unit on teaching games in elementary school.

391 Individual Studies (3)
Open to qualified juniors and seniors with permission from the department. See the catalog section "Individual Studies" for application procedures and policies governing individual studies.

392 Individual Studies (3)
Same as Physical Education 391.

Physical Science

Teaching Minor —
(Secondary) Astronomy 121, 122; Chemistry 103, 104; Physics 115, 116; one course from Astronomy 110, Physical Science 201; one course from Chemistry 201, 202, 203, 301, 302, 311, 312, Physics 206, 215, 216.

Approval Area
88—Physical Science

107 Introduction to Physical Science (3)
A physical science course for the non-science student. Aspects of astronomy, chemistry, geology, and physics are integrated with each other and treated in terms of the historical development of these sciences. An attempt is made to see the development of physical science as a reflection of the predominant world-and-life views of various periods. Four lectures a week by various members of the physical science departments.

201 Perspectives in Physical Science (3)
The unity existing in the physical aspect of creation is used to develop a Christian attitude toward physical science. Various schools of thought are examined. The difference between Christian and non-Christian approaches of order in creation are among the topics treated. Mathematics is not a prerequisite: Three lectures. Prerequisite: one year of college science.
## Physics

### General Major — Physics 125, 126, 215, 216, 335, 336; three courses from Physics 206, 325, 326, and Chemistry 302; Chemistry 301; Mathematics 112, 113, 201, 204.

### Teaching Major — (Secondary) Physics 125, 126, 206, 215, 216, 335, 336; Chemistry 301; Mathematics 112, 113, 201, 204.

### Approval Areas
- **66—Physics**
- **88—Physical Science (With Astronomy 103, 104; Physical Science 110 or 201.)**

### Teaching Minor — (Secondary) Physics 125, 126, 206, 215, 216; one course from physics or astronomy.

### Approval Area
- **55— Physics**

### Astronomy/
### Physics Major — Astronomy 121, 122, 203, and 204 or 252; Chemistry 103; Mathematics 112, 113, 201, 204; Physics 125, 126, 215, 216; and three courses from Chemistry 301, Physics 325, 326, 335, 336.

### Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>115</td>
<td>General Physics (4)</td>
</tr>
<tr>
<td>116</td>
<td>General Physics (4)</td>
</tr>
<tr>
<td>125</td>
<td>Introductory Physics I: Mechanics, Waves, Sound (4)</td>
</tr>
<tr>
<td>126</td>
<td>Introductory Physics II: Heat, Electricity, Magnetism (4)</td>
</tr>
<tr>
<td>206</td>
<td>Electronics (4)</td>
</tr>
<tr>
<td>215</td>
<td>Introductory Physics III: Electromagnetic Waves, Optics, Modern Physics(3)</td>
</tr>
<tr>
<td>216</td>
<td>Mechanics (4)</td>
</tr>
<tr>
<td>301-305</td>
<td>Research (1)</td>
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</tbody>
</table>

**General Physics (4)**

An introduction to the study of the physical aspect of reality. Topics covered include mechanics, kinetic theory, heat, thermodynamics, waves, and sound. Three lectures and one laboratory period per week.

**General Physics (4)**

Continuation of Physics 115. Light, electricity and magnetism, and topics in modern physics, e.g. quantum theory, relativity, physics of the atomic nucleus. Three lectures and one laboratory period per week.

**Introductory Physics I: Mechanics, Waves, Sound (4)**

An introduction to the study of the physical aspect of reality for students intending to continue in the physical sciences or engineering. Statics, dynamics, fluid mechanics, and waves will be covered. Three lectures and one laboratory period per week. Prerequisite: enrollment in or completion of Mathematics 112.

**Introductory Physics II: Heat, Electricity, Magnetism (4)**

Continuation of Physics 125. Topics covered include temperature, kinetic theory of gases, thermodynamics, electricity, and magnetism. Three lectures and one laboratory period per week. Prerequisite: Physics 125.

**Electronics (4)**

The course acquaints the student with the basic physics of electrons in matter, individual electronic components, and electronic circuits such as power supplies, amplifiers, and oscillators. Three lectures and one laboratory period per week. Prerequisite: Physics 116 or 126.

**Introductory Physics III: Electromagnetic Waves, Optics, Modern Physics(3)**

Continuation of Physics 126. Electromagnetic waves, geometrical and physical optics, quantum physics, atoms, solid state, and nuclei will be covered. Three lectures per week. Prerequisite: Physics 120.

**Mechanics (4)**

A study of methods in classical mechanics; dynamics of a particle, harmonic oscillator, central force motion, systems of particles, rotational dynamics, Lagrange's equations. Three lectures and one problem solving session per week. Prerequisites: Physics 116 or 126 and registration in Mathematics 204.

**Research (1)**

Original research in experimental or theoretical physics on an approved topic supervised by departmental staff. Prerequisites: Physics 116 or 126 and permission of department.
325 **Theoretical Mechanics (3)**
Lagrangian, and Hamiltonian dynamics, general rigid body motion, theory of Vibrations and waves, relativistic particle mechanics. Three lectures per week. Prerequisites: Physics 216 and Mathematics 201.

326 **Electromagnetic Theory (3)**
A course in the mathematical theory of electricity and magnetism. Three lectures per week. Prerequisites: Physics 215 and Mathematics 201 and 204.

335 **Modern Physics (4)**
Developments in modern physics: Special relativity, atomic nature of matter and electricity, wave and particle aspects of electrons and light, quantum theory. Three lectures and one laboratory period per week. Prerequisites: Physics 116 or 126 and Mathematics 113.

336 **Modern Physics (3)**
Continuation of Physics 335. A study of atomic and molecular structure, solid state physics, quantum statistics and nuclear physics. Three lectures per week. Prerequisites: Physics 335 and Mathematics 201 and 204.

341-348 **Special Topics (3)**
These courses cover areas in physics not already discussed in other courses. They are special interest courses offered on the basis of student demand and instructor competency and availability. The prerequisite(s) will depend on the topics covered.

391 **Individual Studies (3)**
Open to qualified juniors and seniors with permission from the department. See the catalog section “Individual Studies” for application procedures and policies governing individual studies.

392 **Individual Studies (3)**
Same as Physics 391.

### Political Science

**General Major** — Political Science 201, 210, 211, 212, 213; five elective courses in political science.

**Teaching Minor** —

(Secondary) Political Science 201, 212, 320, 321, 322; two courses from Political Science 210, 211, 311, 312.

<table>
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<tr>
<th>Approval Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>71 — American Government</td>
</tr>
</tbody>
</table>

**201 Introduction to Political Science (3)**
An introduction to both political life and political science through which students are given a foundation for further study of the major sub-fields of the discipline.

**210 International Relations (3)**
An introduction to the contemporary relations among states. The general issues of war and peace, international organizations, international law, regional integration, and economic interdependence will be considered. Special attention will be given to some specific contemporary issues and situations such as the triangular relations among the U.S., the Soviet Union, and China. An introductory course with no necessary prerequisites, though some modern history or Political Science 201 is recommended.

**211 Political Theory and Political Ideologies (3)**
The nature of political theory is examined in the context of major contemporary political ideologies including liberalism, conservatism, socialism, communism, fascism, anarchism, and nationalism. Prerequisite: Political Science 201 or permission of the instructor.

**212 American Government and Politics (3)**
An examination of the basic commitments, institutions, and processes of American political life. Particular attention will be given to the dominant political ideologies and civic culture in relation to Congress, the presidency, and the Supreme Court. Prerequisite: Political Science 201 or permission of the instructor.

**213 Comparative Government and Politics (3)**
A study of major similarities and differences among states, both western and non-western. Particular attention is given to British and French political systems in the process of introducing the student to
the general sub-field of comparative political studies. Prerequisite: Political Science 201 or permission of the instructor.

310 **Ancient and Medieval Political Theory (3)**
A study of the emergence and development of political thought from the ancient world through the High Middle Ages. Special attention will be focused on Plato, Aristotle, Augustine, and Aquinas. Reading will be in both primary and secondary sources. A research paper will be required. A junior level course presupposing some work in history, philosophy, and political science. Prerequisite: Political Science 211 or permission of the instructor.

311 **Modern Political Theory (3)**
The development and triumph of secular humanism as the foundation of a new conception of politics considered by an investigation of the work of Machiavelli, Hobbes, Locke, Rousseau, and others from the end of the Middle Ages to the Nineteenth Century. Attention will be given to the birth and development of American political thought in this context. Prerequisites: Political Science 211, 310 or permission of the instructor.

312 **Recent Political Theory (3)**
A study of the main streams of political thought in the Nineteenth and Twentieth Centuries including marxism, neo-liberalism, neo-classicism, behaviorism, systems analysis, neo-thomism, and neo-calvinism. Prerequisite: Political Science 211 or 311 or permission of the instructor.

320 **The Citizen and Politics (3)**
An examination of contemporary forms of political participation in the United States with comparative reference to Canada and several other countries. Political parties, pressure groups, voting behavior, and electoral processes will be studied. Prerequisite: Political Science 212 or 213 or permission of the instructor.

321 **State and Local Government (3)**
An examination of the political structures, institutions, and procedures of state and local governments in the United States including their interrelationships with each other and with the Federal government. Prerequisite: Political Science 212 or permission of the instructor.

322 **American Constitutional Law (3)**
The American Constitution as interpreted by the Supreme Court. An analysis of leading cases contributing to an understanding of both the historical development of constitutional law and the recent and current developments in constitutional law in reference to civil liberties. Prerequisite: Political Science 212 or permission of the instructor.

332 **Canadian Government and Politics (3)**
The most important institutions, ideologies, and processes of Canadian political life will be examined. Special attention will be given to the federal structure, parliamentary system, political parties, and Canada's historic relations with the United States, Great Britain, and France. Prerequisite: Political Science 213 or permission of the instructor.

341-348 **Special Topics (3)**
Each of these courses is designed to be a special interest course utilizing individual strengths, interests, and competencies. Each topic will be concerned with material not usually treated to any great extent in regularly scheduled courses.

391 **Individual Studies (3)**
Open to qualified juniors and seniors with permission from the department. See the catalog section "Individual Studies" for application procedures and policies governing individual studies.

392 **Individual Studies (3)**
Same as Political Science 391.

**Psychology**

<table>
<thead>
<tr>
<th>General Major</th>
<th>Psychology 201, 207, 301, 310; six courses in psychology.</th>
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<tbody>
<tr>
<td>Teaching Minor</td>
<td>Psychology 201, 207, 210; four elective courses in psychology.</td>
</tr>
<tr>
<td>(Secondary)</td>
<td><em>Approval Area</em></td>
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<tr>
<td></td>
<td>87—Psychology</td>
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</tbody>
</table>
201 General Psychology (3)
An introduction to the field of psychology surveying the areas of motivation, perception, learning, personality, abnormal psychology and psychotherapy. Some attention will be given to the philosophical presuppositions underlying contemporary psychology and an attempt will be made to understand the various problems considered in light of a Biblical view of man.

205 Developmental Psychology I (3)
The study of the growth and development of the individual from conception through adulthood, focusing on personality, cognitive, moral, and social development. This is the first course in a two course sequence with particular emphasis on the prenatal through early adolescent development stages. Prerequisite: Psychology 201.

206 Developmental Psychology II (3)
A continuation of Psychology 205 with particular emphasis on the adolescent through adult stages of development. Prerequisite: Psychology 201. Recommended Psychology 205.

207 Elementary Statistics (3)
An elementary course in probability theory, statistical techniques and methods, and the application of these techniques to the field of psychology.

210 Social Psychology (3)
The study of individual psychological processes as they influence and are influenced by socio-cultural situations, with extended treatment given to the self-concept, verbal and nonverbal communication, moral development, attitudes and persuasion, conformity and commitment, group processes, interpersonal attraction and sexuality, social motives, and the problems of social injustice, prejudice, and discrimination. Prerequisite: Psychology 201.

221 Physiological Psychology (3)
an introduction to the physiological/biological processes involved in human psychology, including motivation, emotion, sexuality, love and hate, sleeping and dreaming, hypnosis, mediation, biofeedback, learning and memory, and perception. Special and extensive attention will be given to psychosomatic disorders, brain damage and behavior, drug addiction, behavioral medicine, physiological factors in abnormality, and the role of physiological assessment in psychotherapy and applied psychology. Prerequisite: Psychology 201.

225 Abnormal Psychology (3)
A study of the development and symptoms of emotional and behavioral problems. Topics covered will include: neurosis, schizophrenia, sexual deviations, affective disorders, personality disorders, psychosomatic disorders, and the process of adjustment to stress. Attention will be given to personality, social and religious factors, and their role in mental health. Prerequisite: Psychology 201.

301 Experimental Psychology (4)
Application of experimental methodology to primarily the areas of learning and perception. Exercises in laboratory research and formal written reports will be required. The experimental method itself will be evaluated in light of current studies of experimenter bias and experimenter effects and the relationship between the experimental method and the Christian faith discussed. Three lectures and one laboratory period per week. Prerequisites: Psychology 201, 207.

302 Learning and Behavior Modification (3)
The study of several influential learning theories, especially classical conditioning, Skinner's operant conditioning, and cognitive learning theory, with most of the course devoted to examining and evaluating these theories as they have been applied in personal growth techniques, behavior modification, education, social work, and other areas of individual and societal life. Prerequisite: Psychology 201.

303 Theories of Personality (3)
Study of the structure and nature of personality as viewed by Freud, Jung, Adler, Fromm, Horney, Sullivan, Murray, Lewin, Allport, Rogers, behavioristic theories and several Christian-oriented theories. Prerequisite: Psychology 201.

305 Motivation and Emotion (3)
The "why" of human activity. A biblically-based view on religion, human nature, human relationships, and motivation will be used to evaluate psychoanalytic, behavioristic, humanistic, existential, physiological, and other perspectives on motivation and emotion. Some practical exercises in emotional and/or motivational sensitivity will be required. Prerequisite: Psychology 201.

310 History and Systems of Psychology (3)
A brief study of the historical development of psychological theories from the ancient world to the present, with extended treatment given to major contemporary movements or perspectives in psychology.
(especially psychoanalysis, behaviorism, humanism, and phenomenology) and to recent attempts by Christians to “integrate” theology and psychology. Prerequisite: Psychology 201, Philosophy 201.

315 Introduction to Counseling Techniques (3)
Introductory course in counseling techniques emphasizing the dynamics of the counseling process and characteristics of the counseling relationship in the light of the biblical directives concerning human nature, purpose, responsibility, and conduct. Prerequisite: A minimum of three courses in Psychology.

341-348 Special Topics (3)
Each of these courses is designed to be a special interest course utilizing individual strengths, interest, and competencies. Each topic will be concerned with material not usually treated to any great extent in regularly scheduled courses.

391 Individual Studies (3)
Open to qualified juniors and seniors with permission from the department. See the catalog section “Individual Studies” for application procedures and policies governing individual studies.

392 Individual Studies (3)
Same as Psychology 391.

Reading
Teaching Minor—
(Secondary) Education 206, 303, 326, 327; Linguistics 201; Linguistics 301 or Communication 214; English 301.

Approval Area
91—Reading

Secretarial Science

ASSOCIATE OF ARTS (TWO-YEAR PROGRAM)

Course Requirements:
A minimum of twenty (20) courses is required for graduation.

I. General Education (9 courses)
   English 101 1
   English 200 1
   Communication 111 or 301 1
   Mathematics 106 (or mathematics proficiency) 0-1
   Natural Science 1
   Psychology 201 1
   Theology 101 1
   Theology 201, 202, or Philosophy 201 1
   *Elective 1-2
   9

II. Area of Concentration—Secretarial Science (8-11 courses)
   Business Education 105 1
   Business Education 112 (unless waived by department) 0-1
   Business Education 113 1
   Business Education 321 1
   Business Education 322 1
   Business Education 323 1
   Business Administration 101 1
   Business Education 203 or Business Administration 201 1
Business Education 211 (unless waived by department) 0.1
Business Education 212 (unless waived by department), 213; or
two courses from accounting, business law, computer science,
or economics 1.2
8.11

III. Electives (selected by the student) 0.3

Total courses 20

*Course(s) elected to satisfy the general education requirements must be taken from the following areas: economics, foreign languages, history, mathematics, music, natural science, psychology, political science, sociology.

Social Science

General Major— History 201, 202, and four elective history courses numbered 200 or above; Economics 201, 202; Political Science 201, 202; Sociology 201, 202, 207, 210; three additional courses selected from among the economics, history, political science, and sociology departments.

Teaching Major—
(Secondary) Economics 201, 202; Geography 201; History 101, 102, 201, 202, 391; Political Science 201, 212; Sociology 201, 202, 207; two courses from History 305, 309, 311, 312; two courses from History 203, 204, 205, 206, 207, 208, 209, 210, 301, 302, 303; two courses from Economics 303, 305, 315; two courses from Political Science 210, 211, 311, 312, 320, 321, 322; one course from Sociology 203, 204, 205, 206, 210, 211.

Approval Areas
72—American History
73—World History
75—All subjects in History and Social Science

Teaching Minor—
(taken with history major)
(Secondary) Economics 201, 202; Political Science 201, 212; Sociology 201, 202; Geography 201; one course from Economics 303, 305, 315; one course from Political Science 210, 211, 311, 312, 320, 321, 322; one course from Sociology 203, 204, 205, 206, 207, 210, 211.

Approval Area
*75—All subjects in History and Social Science
*If combines with a history major
Social Work

General Major — Sociology 202, 207, 225, 226, 303, 304, 310, 312, 315, 325, 374; Psychology 205, 210; two elective courses from economics, political science, psychology, or sociology.

SEE: Social Work Program, page 33-34, for general information about the Social Work Program and the requirements for application to the program.

Sociology

General Major— Sociology 201, 206, 207; one course from Sociology 205, 212, 214; one course from Sociology 202, 203, 204; five elective courses in sociology.

Teaching Minor — (Secondary) Sociology 201, 202, 207, 210; three elective courses from Sociology 203, 205, 206, 211, 391.

Approval Area
74—Sociology

201 Principles of Sociology (3)
A study of the nature and methodology of sociology, and an introduction to its field of investigation, including an analysis of the structure and form of various social relationships. The course also includes an intensive treatment of the socialization process, the cultural heritage, social systems, and institutional alignments.

202 Social Problems (3)
A study of the current social problems—Their nature, extent, causes and remedies in the light of God's Word; especially problems arising out of the population growth, war, crime and deviance, alcoholism and drug addiction, the degradation of work in modern society, poverty, and mental illness. Special emphasis will be placed on pollution and the environmental crisis. Prerequisite: Sociology 201.

203 The Family and Marriage (3)
A study of the structure and forms of marriage and family, including an analysis of their various functions and intertwinements with other social relationships in various cultures past and present. The contemporary dating, courting and marriage and divorce patterns of Americans are also discussed and studied in the light of a Biblical perspective. Prerequisite: Sociology 201.

204 Criminology (3)
An analysis of the extent, pattern and causes of delinquency and crime in modern society in the light of the Biblical view of man, followed by a survey of police and court procedures and the various penal and treatment programs. Prerequisite: Sociology 201.

207 Elementary Statistics (3)
An elementary course in probability theory, statistical techniques and methods, and the application of these techniques to the field of sociology.

210 Social Psychology (3)
Study of the individual in relation to social situations including treatment of social motivation, attitude development and change, conscience formation, conformity, and small group interaction. Prerequisite: Psychology 201.

211 Sociology of Mass Communications (3)
The development of the mass media in their social context followed by an analysis of the characteristics and functions of mass communications, methods of control and support, contemporary theories of mass communication, an analysis of content, the effectiveness of the mass media and their social effects, and the responsibility for mass communications.
212 Rural Sociology (3)
A study of the structural and functional aspects of rural American Society, the characteristics of rural life, rural institutions, and changes affecting rural society critiqued in the light of the Reformational-Biblical view of man in society. The course will also consider rural community development at home and overseas. Prerequisite: Sociology 201 or permission of the instructor.

214 Urban Sociology (3)
A study of factors in the growth of cities, urban population, the ecology of the city, urban institutions, urban disorganization and planning for urban renewal and reformation considered in the light of a Biblical perspective.

225 Introduction to Social Work (3)
A study of the major fields of social work practice and of the problems with which they deal. It will include agency field visits. Overarching this survey will be a concern for the Christian's individual and collective responsibility for the health and welfare of his neighbor and community.

226 The History and Theory of Social Welfare and Social Work (3)
This course will examine the history and development of social welfare; and the philosophy, theory, and practice of social work as a response to the health and welfare needs of society.

300 Sociological Theory and History (3)
The development of sociology with emphasis on its European background and formative stage in twentieth century United States. Appraisal of the major schools of sociological thought with special emphasis upon the theoretical development in contemporary sociology in Europe and North America. Prerequisite: Sociology 201.

303 Child and Family Welfare Policy (3)
A study of child and family welfare policy and practice including an analysis of how society's ideological, political, and economic concerns affect agency organization and practice.

304 Aging and Social Work (3)
This will be a three-part study of aging including an overview of the sociological and social-psychological aspects of aging; major social problems of later life; and social work with older adults.

310 Practice Methods I (3)
An overview of general systems theory as a basis for developing an integrated social work practice model. Special emphasis will be given to the development of student interactional skills on individual and group levels. (Open to junior social work majors or by permission of instructor.)

312 Practice Methods II (3)
A continuation of Practice Methods I with an emphasis on practice on the institution and community levels. (Open only to senior social work majors.)

315 Social Welfare Policy (3)
A study of the dimensions of choice in social welfare design and an analysis of the process and stages of social welfare policy development.

325 Integrative Seminar in Social Work (3)
An opportunity for students to reflect on and tie together the academic and field work experience with a special emphasis on discussion regarding major practice and value dilemmas confronted by the student. (Open only to senior social work majors.)

341-348 Special Topics (3)
Each of these courses is designed to be a special interest course utilizing individual strengths, interests, and competencies. Each topic will be concerned with material not usually treated to any great extent in regularly scheduled courses.

374 Field Work Experience (9)
The field work course is designed to provide the student with the opportunity to learn to apply and use the knowledge, principles, and skills gained in the classroom in a helping situation toward the development of the student as a social worker. (Open only to senior social work majors.)

391 Individual Studies (3)
Open to qualified juniors and seniors with permission from the department. See the catalog section "Individual Studies" for application procedures and policies governing individual studies.

392 Individual Studies (3)
Same as Sociology 391.
## Spanish

### General Major — Spanish
- Spanish 201, 202, 206, 302, Linguistics 201; five elective courses from Spanish 101, 102, 207, 208, 301, 341-348, 391, 392; and four semesters of conversation 251-258. Study abroad courses are recommended.

### Teaching Major — (Secondary)
- Spanish 201, 202, 206, 301, 302, 391; Linguistics 201; two elective courses (one of which must be in the area of literature) from Spanish 102, 207, 208, 341-348, 392; four semesters of conversation 251-258. Study abroad courses are recommended.

### Teaching Minor — (Secondary)
- Spanish 201, 202, 206, 301, 302; one elective from Spanish 102, 341-348, 391; two semesters of conversation 251-258. Study abroad courses are recommended.

### Approval Area
- 57—Spanish

### 101 Elementary Spanish (4)
- Emphasis on the basic structure of the language, core vocabulary, and pronunciation. Assigned work in the language laboratory.

### 102 Elementary Spanish (3)
- Continuation of 101. Prerequisite: one year of high school Spanish or Spanish 101.

### 201 Intermediate Spanish (3)
- A review of the grammatical structure of Spanish, with an emphasis on the nature of language. Some attention given to listening, speaking and reading skills, vocabulary, and culture. Outside projects required. Prerequisite: two years of high school Spanish or Spanish 102.

### 202 Literary and Cultural Readings (3)
- This course is designed to develop the reading skill and an appreciation for Spanish literature and culture. Emphasis upon contemporary literature. Permission will be granted for individual readings in academic areas of interest to the student. Prerequisite: Spanish 201 or equivalent.

### 206 Spanish Culture (3)
- This course is designed to present various aspects of the way of life of the Hispanic people. Listening and speaking skills will be developed through the classroom activities. Prerequisite: Spanish 201 or equivalent.

### 207 World Literature (3)
- See English 207. Students who wish this course to be listed as a Spanish course will be assigned their paper based on Spanish readings.

### 208 World Literature (3)
- See English 208. Students who wish this course to be listed as a Spanish course will be assigned their paper based on Spanish readings.

### 251-258 Conversation (1)
- A conversation course will be offered each year. The course is designed to give the student practice in listening and speaking. The content of the course will be altered each year. The class will meet two times a week; one hour of preparation per week. Prerequisite: Spanish 101.

### 301 Spanish Phonology (3)
- See Linguistics 301. The principles and universals of phonology will be studied. A direct application will be made to the Spanish language.

### 302 Advanced Spanish Grammar (3)
- This course is designed especially for those who will be teaching the language or who desire a better understanding of the structure of the language. The scope of grammar will be approached systematically. Prerequisite: Spanish 201 or equivalent.
341-348 Special Topics (3)
The topics for these courses will be chosen from areas of literature, advanced language studies, culture or teaching methods. The offering of the course as well as the content will reflect student interest and need. Prerequisite: departmental approval.

391 Individual Studies (3)
Open to qualified juniors and seniors with permission from the department. See the catalog section “Individual Studies” for application procedures and policies governing individual studies.

392 Individual Studies (3)
Same as Spanish 391.

Theatre Arts

General Major — Theatre Arts 201, 202, 203, 207, 208, 340, Communication 212; two courses from English 312, Theatre Arts 364, 365; two courses from Theatre Arts 371, 373, 375, 377, 379; four units from Theatre Arts 011-015.

011 Light/Sound Design and Tech (1)
013 Properties Master (1)
015 Production Design (1)
017 Makeup Design and Application (1)
019 Costuming (1)
021 Voice Instruction (1)
023 Individual Acting (1)
025 Ensemble Acting (1)
027 Stage Movement (1)
029 Music Performance (1)
031 Directing (1)
033 Stage Management (1)
035 House Management (1)
051 Choral Theatre (1)

200 Introduction to the Dramatic Arts (3)
An exploratory course in art forms which uses as a predominant mode of expression the human body — theatre, opera, film, television, dance. Readings and production viewings.

201 Introduction to Theatre (3)
An introduction to the history and literature of theatre, with half the course devoted to workshops in acting, lighting, set design and construction, costuming, publicity, and makeup. Designed to benefit students who will direct programs in performance of skits, plays, or pageants.

202 Fundamentals of Acting (3)
Studies of and practices in the art and craft of acting. Concentration, physicalization, textural analysis, text and character analysis, vocalization, control, use of space, stage geography, approaches to acting, and acting styles.

203 Stagecraft (3)
Introduction to the process of building scenery for a theatrical production. Use of tools, safety guidelines, blueprint reading, building materials, and drafting will be included. Prerequisite: Theatre Arts 201.

204 Concepts in Technical Theatre (3)
An introduction to the processes involved in supporting a production through the art forms of lighting, sound, and makeup. The training and use of control board and makeup media will be introduced and demonstrated. Emphasis will be placed on the preparation of the art form for the theatrical production. Prerequisite: Theatre Arts 201.

207 Theatre History, Greek through Neoclassical (3)
History of the theatre, from Sophocles to Goethe, in all of its dimensions (stage design, acting conventions, professionalism, etc.) Readings in dramatic works.
208  **Theatre History, Romantic to Present (3)**
A continuation of Theatre Arts 207 with an emphasis on the rise of realism in the late Nineteenth Century, and the reaction in the Twentieth Century. Readings in dramatic works.

302  **Advanced Acting (3)**
A study of acting styles and various approaches to character development, through analysis of character and application of acting techniques. Selected scenes to be enacted. Prerequisite: Theatre Arts 202.

303  **Scenography—Scene Design and Stage Lighting (3)**
Review of basic design principles, with introduction to the various skills required of the scene designer: painting, perspective drawing, evaluation, and problem solving. Prerequisite: Theatre Arts 203.

310  **Directing (3)**
A study of some of the problems which are part of the directing process and some of the theories which have shaped that process. Selected one-act plays to be directed and performed. Prerequisite: Theatre Arts 201.

340  **Voice Production, Pedagogy, and Performance (3)**
A study of the physiology, psychology, and acoustics of producing laryngeal sound for the stage actor and singer.

364  **Modern Drama 1880–1920 (3)**
A study of the dramatic literature which gave definition to realism. Included: Ibsen, Strindberg, Hauptmann, Chekhov, Gorki, Shaw, and Synge.

365  **Modern Drama Since 1920 (3)**
A course in contemporary drama which affected theatre in North America and Europe since 1920. Included: Kaiser, Pirandello, O'Neil, Giraudoux, Anouilh, Sartre, Brecht, Williams, Miller, Osborne, Beckett, and Durrenmatt.

371  **Applied Theatre—Directing (3)**
The course content in directing will be designed for each individual in consultation with a departmental supervisor. The course requirements will be met by three enrollments, normally in three consecutive semesters. Open only to majors, teaching minors, and elementary education minor students.

373  **Applied Theatre—Acting (3)**
The course content in acting will be designed for each individual in consultation with a departmental supervisor. The course requirements will be met by three enrollments, normally in three consecutive semesters. Open only to majors, teaching minors, and elementary education minor students.

375  **Applied Theatre—Design (3)**
The course content in design will be designed for each individual in consultation with a departmental supervisor. The course requirements will be met by three enrollments, normally in three consecutive semesters. Open only to majors, teaching minors, and elementary education minor students.

377  **Applied Theatre—Technical Theatre (3)**
The course content in technical theatre will be designed for each individual in consultation with a departmental supervisor. The course requirements will be met by three enrollments, normally in three consecutive semesters. Open only to majors, teaching minors, and elementary education minor students.

379  **Applied Theatre—Playwriting (3)**
A writing plan will be designed for each student in consultation with a departmental supervisor. The course requirements will be met by three enrollments, normally in three consecutive semesters. Open only to majors, teaching minors, and elementary education minor students.

391  **Individual Studies (3)**
Open to qualified juniors and seniors with permission from the department. See the catalog section "Individual Studies" for application procedures and policies governing individual studies.

392  **Individual Studies (3)**
Same as Theatre Arts 391.
Theology

General Major—Theology 210; two courses from Theology 211, 212, 215, 216; one course from Theology 201, 202, 203; two courses in theology numbered 300 or above; and four elective courses in theology beyond Theology 101.

101 Perspectives in Biblical Theology (3)
This course surveys Biblical revelation in its progressive unfolding of key ideas and institutions against their cultural-historical background and within their covenant setting. Emphasis is placed on the normativity of Scripture, which reaches its fullness and fulfillment in Christ, for all academic work.

201 History of Christian Confessions (3)
This course is a study of the history of the Church's response to God's Word as this response comes to expression in the significant ecclesiastical confessions. Stress is placed on the historical context in which the confessions, particularly those of the Reformed churches, were made.

202 History of Western Christianity (3)
This course attempts to create a better understanding of the origin, nature, and history of Western Christianity. Emphasis will be placed on crises that have threatened and shaped Christianity in our civilization. In tracing forces of reformation and deformation that have been operative in Western Christendom, special notice will be taken of peculiar features of Calvinistic Christianity.

203 History of Reformed Theology (3)
Through assigned readings in major Continental and Anglo-American Reformed theologians the development of Reformed theology from Calvin to the present day is investigated. Roughly one-third of the course is devoted to theological issues in the Christian Reformed Church as these are discussed in her official publications and in other periodicals.

210 The Scriptures (3)
The chief objectives of this course is to gain insights into the nature and role of Scripture. By way of introduction such topics as the origin, inspiration, canonicity, translations, and basic principles of the interpretation of the Bible will be covered. By way of application we will study specific passages and/or books of the Bible in order to demonstrate the relevance of the Bible for our day to day living.

211 Historical Writings of the Old Testament (3)
An in-depth study of the Pentateuch and historical writings of the Old Testament. The course will deal with the nature of the historical writings and their interpretation in terms of the history of redemption.

212 Wisdom and Prophecy (3)
An in-depth study of the main features of Old Testament wisdom and prophecy. An analysis will be made of the content, structure, and applications of specific Old Testament writings.

215 New Testament Theology I—The Gospels (3)
This course studies the message of the gospels in the light of such factors as principles for their correct interpretation, their cultural-historical context, their place in redemptive history, and theological issues which have been raised with respect to them.

216 New Testament Theology II—The Epistles (3)
Using Acts as a historical framework for the epistles of the New Testament, this course analyzes the contents of the letters in the light of sound hermeneutical principles, their place in redemptive history, and theological issues raised with respect to them.

302 Mission and Evangelism (3)
This course develops a Biblical theology of mission and evangelism, by which it tests major movements and issues in past and contemporary mission and evangelism, and to which it relates both problems and career opportunities in this field.

303 The Kingdom (3)
Through an intensive study of the Biblical material on the kingdom, readings in selected Biblical theologians, and attention to interpretations and applications of various kingdom theologies, this course develops a theology of the kingdom.

305 North American Protestantism (3)
Mainly an orientational and partly an in-depth study of outstanding characteristics of Protestantism in Canada and in the United States. Attention will be given to such movements as Puritanism, Revivalism, Social Gospel, Fundamentalism, Evangelicalism, Presbyterianism, and Reformed Christianity.
307 Major World Religions (3)
A study of major non-Christian religions of the world including Animism, Hinduism, Shinto, Buddhism, and Islam. Of special concern is the world and life view advanced by each religion and its manifestations in culture and society.

309 Inter-Testamentary Studies (3)
A study of Israel and its surrounding nations between Judah's Fall in 586 B.C. and the Fall of Jerusalem in A.D. 70. Emphasis will be placed on a study of Jewish Dispersion, Maccabees, Zealots, Pharisees, Sadducees, Apocryphal Books, and the coming of Christ in the fullness of time.

311 Heresies and Sects (3)
A survey of various confessional aberrations and consequent rise of different sects. Special attention will be given to the connections between all of this and the implied anthropologies and views of reality, in general, and culture and society, in particular.

341-348 Special Topics (3)
These courses will cover a different topic each semester and each is designed to be a special interest course utilizing individual instructor strengths, interests, and competencies. Each course will cover a topic in theology not usually treated in-depth in regularly scheduled courses.

391 Individual Studies (3)
Open to qualified juniors and seniors with permission from the department. See the catalog section "Individual Studies" for application procedures and policies governing individual studies.

392 Individual Studies (3)
Same as Theology 391.
College Personnel

BOARD OF TRUSTEES

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Mr. Ted Van Bruggen ........................................... Sioux Center, Iowa
Rev. Marvin Van Donselaar .................................... Ocheyedan, Iowa
Rev. Gerald VanDen Berg ...................................... Raymond, Minnesota
Rev. Robert Zomermaand .................................... Chandler, Minnesota
ADMINISTRATIVE PERSONNEL

OFFICE OF THE PRESIDENT

BERNARD HAAN (1959), College President.
  A.B., Calvin College; Th.B., Calvin Seminary.

OFFICE OF THE VICE PRESIDENT FOR ACADEMIC AFFAIRS

ABRAHAM BOS (1962), Associate Professor of German; Associate Academic Dean.
  A.B., Calvin College; A.M., University of South Dakota.

DOUGLAS RIBBENS (1955), Professor of Education; Vice President for Academic Affairs.
  Registrar.
  A.B., Calvin College; A.M., University of Chicago; Ed.D., Colorado State College.

OFFICE OF ADMISSIONS AND FINANCIAL AID

MICHAEL EPEMA (1978), Admissions Counselor.
  A.B., Dordt College.

HOWARD HALL (1970), Director of Admissions and Financial Aid.
  A.B., Calvin College; A.M., University of South Dakota.

PETER HAMSTRA (1981), Admissions Counselor.
  A.B., Dordt College.

OFFICE OF THE BUSINESS MANAGER

BERNARD DE WIT (1966), Vice President for Business.
  A.B., Augustana College.

MARVIN DE YOUNG (1958), Professor of Physics; Director of Auxiliary services.
  A.B., Calvin College; A.M., University of South Dakota; Ph.D., University of the Pacific.

FRED HAAN (1978), Director of Printing.

DARREL RAIH (1979), Comptroller.
  A.B., Dordt College.

CORNELIUS RYLAARSDAM (1972), Assistant to the Vice President for Business.
  A.B., Calvin College.

OFFICE OF THE DEAN OF STUDENTS

KAREN HELDER (1979), Director of Resident Life.
  A.B., Dordt College; M.S., Eastern Michigan University.

JOHN HULST (1968), Vice President for Student Affairs.
  A.B., Calvin College; B.D., Calvin Theological Seminary; Th. M. Calvin Theological Seminary; Th.D., Iliff School of Theology.

QUENTIN VAN ESSEN (1979), Career Counselor and Coordinator of the Counseling Center.
  A.B., Dordt College; M.S., St. Cloud State University.

JAY VAN GRONINGEN (1978), Director of Resident Life.
  A.B., Dordt College; M.A. Reformed Theological Seminary.

MARION VAN SOELEN (1977), Dean of Students.
  B.S., University of Iowa; M.A., University of Iowa; M.A., University of South Dakota.
OFFICE OF DEVELOPMENT

HAROLD DE WIT (1976), General Representative.
VERLYN DE WIT (1975), Development Representative.
A.B., Dordt College.
LYLE GRITTERS (1969), Vice President for Development.
B.S., University of South Dakota.
DALE WALVORT (1979), Development Representative.
A.B., Dordt College.

LIBRARY

MINNIE J. DAHM (1979), Archivist.
A.B., William Penn College; M.A., University of Northern Iowa.
HESTER HOLLAAR (1964), Librarian.
B.S., North Dakota State Teachers College; M.A., (Librarianship), University of Denver.
LOUISE HULST (1968), Librarian.
A.B., Calvin College; M.A., University of South Dakota.
EMMA VANDEN BERG (1967), Reference Assistant.

THE FACULTY

CHARLES ADAMS (1979), Assistant Professor of Engineering.
B.S., New Jersey Institute of Technology; M.S., Rensselaer Polytechnic Institute; M.A., Montclair College.
JOANNE ALBERDA (1967), Assistant Professor of Art.
A.B., Calvin College; M.S., Montana State University.
WILLIS ALBERDA (1964), Professor of Mathematics.
A.B., Calvin College; M.S., Montana State University; Ph.D., Montana State University.
SYNE ALTENA (1968), Professor of Physical Education.
A.B., Westmar College; A.M., Michigan State University; M.A., Central Michigan University; Ed. D., University of Arkansas.
DALLAS APOL (1965), Professor of Foreign Language.
A.B., Calvin College; A.M., University of Michigan; Ph.D., University of Minnesota.
ARTHUR ATTEMA (1980), Instructor in Business Education.
A.B., Dordt College.
DUANE BAJEMA (1977), Instructor in Agriculture.
B.S., University of Minnesota.
KORNELIUS BOOT (1969), Associate Professor of Linguistics.
A.B., Dordt College; M.A., University of North Dakota; M.A., University of Washington.
ABRAHAM BOS (1962), Associate Professor of German; Associate Academic Dean.
A.B., Calvin College; A.M., University of South Dakota.
GERALD BOUMA (1969), Associate Professor of Music.
A.B., Northwestern College; M.M., Arizona State University.

RICHARD BUCKHAM (1975), Assistant Professor of Psychology.
B.A., Greenville College.

KENNETH BUSSEMA (1974), Associate Professor of Psychology.
B.S., Northern Arizona University; M.A., Northern Arizona University; Ed.D., Northern Arizona University.

HUGH COOK (1970), Associate Professor of English.
A.B., Calvin College; M.A., Simon Fraser University; M.F.A., University of Iowa.

HENRY DE GROOT (1969), Professor of Business Administration and Economics.
B.S., Sioux Falls College; M.B.A., University of South Dakota; C.P.A., Iowa.

JAMES DE JONG (1974), Professor of Theology.
A.B., Calvin College; B.D., Calvin Theological Seminary; Th.D., Free University of Amsterdam.

MARTIN DEKKENGA (1969), Associate Professor of Communication.
A.B., Calvin College; A.M., University of Northern Iowa, A.M., University of South Dakota.

HENRY DE VRIES (1978), Instructor in Agriculture.
A.B., Calvin College; M.S., Cornell University.

MARVIN DE YOUNG (1958), Professor of Physics; Director of Auxiliary Services.
A.B., Calvin College; A.M., University of South Dakota; Ph.D., University of the Pacific.

GEORGE FABER (1974), Professor of Education.
A.B., Calvin College; M.A., Western Michigan University; Ph.D., Western Michigan University.

EDWIN GEELS (1965), Professor of Chemistry.
B.S., Calvin College; Ph.D., Iowa State University.

LILLIAN GRISSEN (1979), Assistant Professor in Journalism and English.
A.B., Arizona State University; M.A., University of Colorado.

DALE GROETENHUIS (1959), Professor of Music.
A.B., Calvin College; M.M., Michigan State University.

BERNARD J. HAAN (1959), College President.
A.B., Calvin College; Th.B., Calvin Seminary.

HOWARD HALL (1970), Director of Admissions and Financial Aid.
A.B., Calvin College; A.M., University of South Dakota.

ROBERT HILBELINK (1979), Instructor in Accounting.
B.S.B.A., University of Denver; C.P.A.

RICHARD HODGSON (1969), Associate Professor of Astronomy.
A.B., Swarthmore College; M.Div., Union Theological Seminary; Th.M., Westminster Theological Seminary.

GERALD HOEKEMA (1971), Associate Professor of Mathematics and Computer Science.
B.S., Calvin College; M.S., Purdue University.

HESTER HOLLAAR (1965), Librarian.
B.S., North Dakota State Teachers College; M.A., (Librarianship), University of Denver.
ETTA HUISMAN (1972), Assistant Professor of Physical Education.
A.B., Central College; M.A., University of Iowa.

JOHN HULST (1968), Vice President for Student Affairs.
A.B., Calvin College; B.D., Calvin Theological Seminary; Th.M., Calvin Theological Seminary; Th.D., Iliff School of Theology.

LOUISE HULST (1968), Librarian.
A.B., Calvin College; M.A., University of South Dakota.

WAYNE KOBES (1973), Assistant Professor of Theology.
A.B., Dordt College; B.D., Calvin Theological Seminary; Th.M., Calvin Theological Seminary.

ARNOLD KOEKKOEK (1964), Associate Professor of History.
A.B., Calvin College; A.M., University of Iowa.

JAMES KOLDENHOVEN (1962), Associate Professor of English.
A.B., Calvin College; A.M., University of South Dakota.

McKENDREE R. LANGLEY (1979), Associate Professor of History.

RUSSELL MAATMAN (1963), Professor of Chemistry.
A.B., Calvin College; Ph.D., Michigan State University.

NOEL MAGEE (1970), Professor of Music.
B.M., Wheaton College; M.M., Indiana University; Ph.D., University of Iowa.

JAMES MAHAFFY (1979), Assistant Professor of Biology.
A.B., Dordt College; M.S., University of Illinois.

NORMAN MATHEIS (1977), Associate Professor of Art.
B.S.D., University of Michigan; M.F.A., University of Michigan.

ROCKNE McCARTHY (1979), Professor of Dordt Lectureship Institute.
A.B. Grinnel College; B.D. Covenant Theological Seminary; Ph.D., St. Louis University.

AALDERT MENNEGA (1964), Professor of Biology.
A.B., Calvin College; A.M., Michigan State University; Ph.D., Michigan State University.

VERNE MEYER (1977), Assistant Professor of Theatre Arts.
A.B., Calvin College; M.A., Marquette University.

WILLIAM NAWYN (1970), Associate Professor of History.
A.B., Calvin College; A.M., University of Michigan; Ph.D., University of Iowa.

LARRY REYNOLDS (1969), Professor of Education.
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LEONARD RHODA (1970), Professor of Physical Education.
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DOUGLAS RIBBENS (1955), Professor of Education; Vice President for Academic Affairs; Registrar.
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JOAN RINGERWOLE (1967), Professor of Music.
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JAMES SCHAAP (1976), Assistant Professor of English.
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MICHAEL STAIR (1971), Instructor in Theatre Arts.
A.B., Bethel College; M.A., University of Wisconsin.

GLORIA STRONKS (1979), Assistant Professor of Education.
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WILLIAM STRONKS (1979), Professor of Foreign Language.
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JOHN STRUYK (1969), Professor of Foreign Language.
A.B., Calvin College; A.M., University of Waterloo; Ph.D., University of Waterloo.

E.L. HEBDEN TAYLOR (1968), Associate Professor of Sociology.
B.A., Cambridge University; M.A., Cambridge University; L.Th., University of British Columbia.

BARBARA TOP (1978), Associate Professor of Education.
B.S., Augustana College; M.A., Augustana College; Ed.S., Drake University.

JACK VANDEN BERG (1967), Associate Professor of English.
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JAMES VANDEN BOSCH (1978), Assistant Professor of English.
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MARLIN VANDEN BOSCH (1968), Professor of English.
A.B., Calvin College; A.M., University of Iowa; Ph.D., University of Iowa.

MARIAN VANDER ARK (1970), Professor of Education.
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EVERT VAN DER HEIDE (1975), Assistant Professor of Economics.
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DARYL VANDER KOOI (1971), Professor of Communication.
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RANDALL VANDERY MEY (1980), Instructor in English.
A.B., Calvin College; M.A., University of Pennsylvania; M.F.A., University of Iowa.

JOHN C. VANDER STELT (1968), Professor of Theology and Philosophy.
A.B., Calvin College; B.D., Free University of Amsterdam; Th.D., Free University of Amsterdam.

DELMAR VANDER ZEE (1969), Professor of Biology.
A.B., Dordt College; M.A., Western Michigan University; M.S., Iowa State University; Ph.D., Washington State University.

WYTSE VAN DIJK (1971), Professor of Physics.
B.S., McMaster University; Ph.D., McMaster University.
JOHN VAN DYK (1966), Professor of Philosophy.
A.B., Calvin College; A.M., University of Michigan; Ph.D., Cornell University.

LOUIS VAN DYKE (1963), Professor of History.
A.B., Calvin College; M.A., University of Washington; D.A.T., University of North Dakota.

MARION VAN SOELEN (1977), Associate Professor of Physical Education. Dean of Students
B.S., University of Iowa; M.A., University of Iowa; M.A., University of South Dakota.

CHARLES VEESTRA (1976), Associate Professor of Communication.
A.B., Dordt College; M.A., Northern Illinois University.

ARNOLD VELDKAMP (1971), Associate Professor of Mathematics.
A.B., Calvin College; M.Ed., Western Washington State; M.A., University of Illinois.

KENNETH VENHUIZEN (1977), Associate Professor of Sociology.
A.B., Calvin College; M.S.W., University of Washington, ACSW.

TOM VISKER (1978), Instructor in Physical Education.
A.B., Calvin College; M.A., Western Michigan University.

JACK VISSCHER (1980), Instructor in Economics.
A.B., Calvin College; M.S., Michigan State.

JOHN VISSER (1976), Instructor of Business Administration.
B.S., University of Illinois: M.B.A., DePaul University.

JOHN ZINKAND (1958-1965, 1969), Professor of Classical Languages.

Degrees Granted 1981
Faith Ellen Aardsma, Denver, Colorado
Calvin W. Ahrenholz, Renville, Minnesota
Curtis F. Ahrenholz, Renville, Minnesota
Paula Jo Arnold, Indianola, Iowa
Donald P. Aupperlee, Prospect Park, New Jersey
Joyce Christine Bakker, St. Catharines, Ontario, Canada
Margaret J. Bakker, St. Catharines, Ontario, Canada
James Mark Beach, Albuquerque, New Mexico
Terry Beimers, Sioux Center, Iowa
Maria H.F. Bitter, Port Alberni, British Columbia, Canada
Donna Jean Boender, New Sharon, Iowa
Barbara A. Boer, Sioux Center, Iowa
Cheryl Faye Bonnema, Le Mars, Iowa
Gregory T. Bonnema, Raymond, Minnesota
Randy W. Bonnema, Prinsburg, Minnesota
Patricia Ann Boonstra, Maple Ridge, British Columbia, Canada
Deborah E. Boot, Sioux Center, Iowa
Linda Joy Bosma, Fulton, Illinois
James A. Bouma, Brandenton, Florida
Wendy J. Bouwman, Rocky Mountain House, Alberta, Canada
David L. Brauning, Grafton, Nebraska
Gerrit E. Brouwer, Escondido, California
Jacob E. Brouwer, Escondido, California
Christina Suzanna Bruinooge, Weyburn, Saskatchewan, Canada
Cheryl Marie Buteyn, Denver, Colorado
Deborah H. Butler, Iowa City, Iowa
Sharlene Byker, Hawarden, Iowa
Daniel J. Daveleer, Maurice, Iowa
David J. De Blaey, Oostburg, Wisconsin
Bruce Wayne De Boer, Leota, Minnesota
Cheryl Lynn De Bruin, Oskaloosa, Iowa
Denise H. de Groot, Calgary, Alberta, Canada
Stanley Ray De Groot, Pella, Iowa
Terry Charles De Jager, Lethbridge, Alberta, Canada
Thomas De Jager, Lethbridge, Alberta, Canada
Timothy F. De Jager, Coaldale, Alberta, Canada
Deborah Ruth De Jong, Lansing, Illinois
James B. De Lange, Platte, South Dakota
Sheryl B. Dengler, Rock Rapids, Iowa
Barbara J. De Visser, Newark, New York
Susan (Atkinson) De Vries, Seattle, Washington
Wilma J. de Waal, Chilliwack, British Columbia, Canada
Denise Gerri de Wit, Red Deer, Alberta, Canada
James W. De Young, Clinton, Mississippi
Peter John Deys, Red Cliff, Alberta, Canada
Brian Doornenal, Lacombe, Alberta, Canada
Kathleen (de Schiffart) Doornenal, Lacombe, Alberta, Canada
Christine Ann Du Mez, Oostburg, Wisconsin
Alice F. Dykstra, Lethbridge, Alberta, Canada
Richard George Eckardt, Cedar Falls, Iowa
Douglas E. Eisma, Inwood, Iowa
Peter Ellens, Niagara-on-the-Lake, Ontario, Canada
Leonard R. Fakkema, Oak Harbor, Washington
Rodney Flikkema, Portland, Oregon
Timothy Scott Franje, New Sharon, Iowa
Karen Ann Fynaardt, New Sharon, Iowa
Russell Allen Fynaardt, New Sharon, Iowa
Diane Sue Galema, Lafayette, Indiana
Cheryl Lynn Gartman, Oostburg, Wisconsin
Richard T. Geertsma, Sedro Woolley, Washington
Kenneth E. Geelynse, Lynden, Washington
Lyle Dean Gorter, Worthington, Minnesota
Marshall C. Greiman, Garner, Iowa
James B. Groen, Raymond, Minnesota
Bruce A. Groenendyk, Leighton, Iowa
Brian D. Groeneweg, Sheldon, Iowa
Kevin K. Groeneweg, Hull, Iowa
Robert Alan Grottenhuis, Sioux Center, Iowa
Peter Alan Hamstra, Phoenix, Arizona
Mark N. Heard, Rockford, Iowa
G. Joyce Hedlin, Yarrow, British Columbia, Canada
Janet Elaine Barnes Heeringa, Portage, Michigan
Peter D. Heersink, Grimsby, Ontario, Canada
John C. Henderson, Seattle, Washington
Everett L. Hoekstra, Sioux Center, Iowa
Daniel L. Hoekstra, Colorado Springs, Colorado
Roy Arthur Hoogerhyde, North Haledon, New Jersey
Theresa Jeanette Houtman, Escondido, California
Elroy G. Houtsma, Sioux Center, Iowa
Mary Sue Houtsma, Sioux Center, Iowa
Mark Hubers, De Motte, Indiana
Lyle Keith Huisman, Hospers, Iowa
Debra Kay Huizenga, Cambria, Wisconsin
Diane Gay Huizenga, Cambria, Wisconsin
Tina A. Huizing, Lethbridge, Alberta, Canada
Julie Kay Hulstein, Inwood, Iowa
Rebecca Anne Huysler, Sully, Iowa
Brian L. Jaarsma, Houston, British Columbia, Canada
Brenda Sue Kallmeyen, Sioux Falls, South Dakota
Carol Jean Kanis, Pella, Iowa
Kent R. Kelderman, Des Moines, Iowa
Marvin V. Kleinjan, Bruce, South Dakota
Ronald Leonard Knol, Edmonton, Alberta, Canada
Cindy Sue Koldenhoven, Sioux Center, Iowa
Cheryl Ann Koleen, Holland, Michigan
John Ronald Koning, Port Alberni, British Columbia, Canada
Ginny (Van Wieren) Koole, Holland, Michigan
Ronald Boudewyn Koole, Jordan Station, Ontario, Canada
Marcia S. Koning, Prinsburg, Minnesota
William Thys Koopmans, Telkwa, British Columbia, Canada
Tamara Joy Kreun, Edgerton, Minnesota
Pamela G. Kreykes, Sheldon, Iowa
Randall B. Kroese, Sioux Center, Iowa
James A. Kroon, Waupun, Wisconsin
Daniel J. Kuik, Hospers, Iowa
Gregory J. Kuiper, Hospers, Iowa
Jana B. LaBrenz, Grand Junction, Colorado
Lynn D. Landhuis, Denver, Colorado
Joyce Elaine Leensvaart, Denver, Colorado
Dinh Van La, Hull, Iowa
Marcia L. Louters, Hollandale, Minnesota
Gwen E. (Ver Burg) Lyon, Walla Walla, Washington
Evelyn McKim, Brandon, Manitoba, Canada
Todd Richard McKim, Brandon, Manitoba, Canada
Karen (Sterken) Medema, Delavan, Wisconsin
Timothy Allen Meendering, Sheldon, Iowa
Bonnie Jo Miedema, Alton, Iowa
Brent Alan Mollema, South Holland, Illinois
Joel W. Moody, Sheboygan, Wisconsin
Donna Jane Mulder, Parkersburg, Iowa
John H. Mulder, Abbotsford, British Columbia, Canada
Marilyn Mulder, Norwalk, California
Mark Owen Mulder, Edgerton, Minnesota
Roger R. Mulder, Renville, Minnesota
Cynthia Nederhoff, Sioux Center, Iowa
Kathryn Nieuwenhuis, Regina, Saskatchewan, Canada
William D. Nieuwenhuis, Delavan, Wisconsin
Armand Jay Olivier, Sioux Center, Iowa
William Guy Patten, Seattle, Washington
Gary K. Peters, Sheldon, Iowa
Linda Sue (De Boer) Peters, Littleton, Colorado
Walter Poehner, Columbia, South America
Randall J. Poel, Grand Rapids, Michigan
Gregory Poumakis, Lantana, Florida
Frances Joan Radsma, Calgary, Alberta, Canada
Robert Vern Reichert, Hastings, Nebraska
Cynthia Reynolds, Seattle, Washington
Julie Riebkes, Cedar Falls, Iowa
Dennis M. Rowenhorst, Orange City, Iowa
Janna K. Rubingh, Ellsworth, Michigan
Bernita Teresa Saathof, Abbotsford, British Columbia, Canada
Lyle J. Schaap, Sheldon, Iowa
Susan Gail Schnabel, Aberdeen, South Dakota
Michael G. Schouten, Hawarden, Iowa
Colin V. Senneker, Vauxhall, Alberta, Canada
Duane Severson, Platte, South Dakota
Liz Siebring, Mill Bay, British Columbia, Canada
Doreen Faye Skillen, Sioux Center, Iowa
Paul Kenneth Slager, Monroe, Washington
Arlyn James Slagter, Raymond, Minnesota
Barbara J. Sleqers, Chino, California
Mary Elizabeth Hebden Stuit, Sioux Center, Iowa
Stanley Jay Sturing, Oskaloosa, Iowa
Jon S. Sybesma, Platte, South Dakota
Debra K. Sytsma, St. Catharines, Ontario, Canada
Jayne De Bruin Tien, Oskaloosa, Iowa
Barbara Sue Tinklenberg, Edgerton, Minnesota
Gail D. Tinklenberg, Highland, Indiana
Greg L. Uttinger, Anderson, California
Gerald John Vaandering, Brantford, Ontario, Canada
DEGREES GRANTED 1981

103

1981 SECRETARIAL SCIENCE GRADUATES

Kathryn Ann Boogman, Riverside, California
Lori J. De Vries, Pine Bush, New York
Debra K. Dykstra, Hospers, Iowa
Daniel Paul Elenbaas, Wellsburg, Iowa
Rosalee Hibma, Harris, Iowa
Ellen Joyce Kats, Rock Valley, Iowa
Debra Lynn Klyn, Pella, Iowa
Jennifer Gaye Mannes, Denver, Colorado
Ruth Ann Mersman, Kentwood, Michigan
Gail J. Mouw, Ireton, Iowa
Jill L. Nieman, Britt, Iowa
Arlene Faye Pleima, Pella, Iowa
Linda Faye Statema, Ireton, Iowa
Pamela Van Hove, Sacred Heart, Minnesota
Krista L. Van Wyk, Pella, Iowa
Ronda Gail Veenstra, Escalon, California
Debra Ann Verbruggen, Corwith, Iowa
Dawn Renee Ver Hill, Pittsburgh, Pennsylvania
## Geographical Distribution

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### The Academic Calendar

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<th>Day</th>
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<td>Aug. 26</td>
<td>Aug. 25</td>
<td>Wednesday</td>
<td>Orientation - Registration</td>
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<td>Aug. 26</td>
<td>Aug. 25</td>
<td>Wednesday</td>
<td>Convocation - 7:00 P.M.</td>
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<td>Aug. 27</td>
<td>Aug. 26</td>
<td>Thursday</td>
<td>Classes begin - 8:00 A.M.</td>
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<td>Oct. 1, 2</td>
<td>Oct. 7, 8</td>
<td>Thurs.-Fri.</td>
<td>Reading Days - Tri-State Institute - No classes</td>
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<td>Nov. 25</td>
<td>Nov. 24</td>
<td>Wednesday</td>
<td>Thanksgiving Recess - 12:00 P.M. (noon)</td>
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<td>Dec. 1</td>
<td>Nov. 30</td>
<td>Tuesday</td>
<td>Classes resume - 8:00 A.M.</td>
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<td>Dec. 14</td>
<td>Dec. 13</td>
<td>Monday</td>
<td>Testing - P.M.</td>
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<td>Dec. 15</td>
<td>Dec. 14</td>
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<td>Testing - A.M. and P.M.</td>
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<td>Dec. 16</td>
<td>Dec. 15</td>
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<td>Testing - A.M. and P.M.</td>
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<td>Dec. 17</td>
<td>Dec. 16</td>
<td>Thursday</td>
<td>Testing - A.M. and P.M.</td>
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<td>Jan. 13</td>
<td>Jan. 12</td>
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<td>Second Semester begins - 8:00 A.M.</td>
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<td>Mar. 18</td>
<td>Mar. 17</td>
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<td>Spring Vacation - 12:00 P.M. (noon)</td>
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<td>Mar. 30</td>
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<td>Classes resume - 8:00 A.M.</td>
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<td>May 3</td>
<td>May 2</td>
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<td>Review Day - A.M.</td>
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<td>May 3</td>
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<td>May 4-6</td>
<td>May 3-5</td>
<td>Tues.-Thurs.</td>
<td>Testing - A.M. and P.M.</td>
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<td>May 7</td>
<td>May 6</td>
<td>Friday</td>
<td>Commencement - 10:00 A.M.</td>
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</table>

ALL CORRESPONDENCE SHOULD BE MAILED TO
DORDT COLLEGE, SIOUX CENTER, IOWA 51250
AREA CODE 712-722-3771

Requests for specific information should be addressed as follows:
- General policies and interest of the college: THE PRESIDENT, 712-722-6000
- Academic matters; curriculum and instruction: THE VICE PRESIDENT FOR ACADEMIC AFFAIRS, 712-722-6030
- Student affairs; personal welfare and health of students: THE VICE PRESIDENT FOR STUDENT AFFAIRS, Ext. 6061
- Transcripts of credits; grade points: THE REGISTRAR, 712-722-6030
- Admissions; bulletins, application forms: THE DIRECTOR OF ADMISSIONS, 712-722-6080
- Payments of accounts; general business matters: THE VICE PRESIDENT FOR BUSINESS, 712-722-6010
- Financial assistance: THE DIRECTOR OF FINANCIAL AID, 712-722-6080
- Publicity; gifts; annuities; offerings; news information; estate planning; alumni affairs; special subscribers; church relations: THE VICE PRESIDENT FOR DEVELOPMENT, 712-722-6020
- Student advising and career placement: THE DIRECTOR OF CAREER PLACEMENT, 712-722-6070
1. President's Home
2. West Hall - 160 students
3. Central Heating Plant
4. Commons (Dining Hall)
5. North Hall - 200 students
6. East Hall - 200 students
7. Student Housing - mobile homes
8. Physical Education Building (Gymnasium)
9. Radio Communications Center (Station KDCR)
10. Municipal Indoor Swimming Pool
11. Municipal Stadium
12. Student Union
13. Library
14. Science Building
15. Business Office
16. Campus Greenhouse
17. New World Theater
18. Campus Maintenance Center
19. Municipal Indoor Swimmng Pool
20. Classroom Building A (Rooms 107-118)
21. Classroom Building B (Rooms 120-125)
22. Faculty Office Complex
23. Classroom Building C (Rooms 155-217)
24. Te Paske Community Theatre
25. Practice Field (Band and Soccer)
26. Environmental Observation Station
27. Tennis Courts
28. East Campus Apartments
29. Art - Academic Administration Building
30. Chapel - Music Center
<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Calendar</td>
<td>106</td>
</tr>
<tr>
<td>Academic Policies</td>
<td>27</td>
</tr>
<tr>
<td>Academic Probation</td>
<td>29</td>
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<tr>
<td>Academic Program</td>
<td>24</td>
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<td>29</td>
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<tr>
<td>Accounting</td>
<td>43</td>
</tr>
<tr>
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<tr>
<td>Business Administration</td>
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</tr>
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</tr>
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<td>Classification of Students</td>
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<td>Communication/Speech</td>
<td>53</td>
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<td>55</td>
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<td>Grant-in-Aid</td>
<td>15</td>
</tr>
<tr>
<td>Greek</td>
<td>68</td>
</tr>
<tr>
<td>Guaranteed Loans</td>
<td>18</td>
</tr>
<tr>
<td>Hebrew</td>
<td>69</td>
</tr>
<tr>
<td>History</td>
<td>69</td>
</tr>
<tr>
<td>History of Dordt</td>
<td>2</td>
</tr>
<tr>
<td>Housing</td>
<td>10</td>
</tr>
<tr>
<td>Housing Regulations</td>
<td>10</td>
</tr>
<tr>
<td>Individual Studies</td>
<td>32, 71</td>
</tr>
<tr>
<td>Individual Studies Programs</td>
<td>32</td>
</tr>
<tr>
<td>Intramurals</td>
<td>8</td>
</tr>
<tr>
<td>Job Placement</td>
<td>10</td>
</tr>
<tr>
<td>Latin</td>
<td>71</td>
</tr>
<tr>
<td>Library Science</td>
<td>71</td>
</tr>
<tr>
<td>Linguistics</td>
<td>72</td>
</tr>
<tr>
<td>Loans</td>
<td>17, 18</td>
</tr>
<tr>
<td>Location</td>
<td>3</td>
</tr>
<tr>
<td>Majors</td>
<td>31</td>
</tr>
<tr>
<td>Mathematics</td>
<td>72</td>
</tr>
<tr>
<td>Meals</td>
<td>11</td>
</tr>
<tr>
<td>Medical Insurance</td>
<td>16</td>
</tr>
<tr>
<td>Medical Technology</td>
<td>31</td>
</tr>
<tr>
<td>Music</td>
<td>74</td>
</tr>
<tr>
<td>Musical Activities</td>
<td>9</td>
</tr>
<tr>
<td>Music Grants</td>
<td>22</td>
</tr>
<tr>
<td>National Direct Student Loans</td>
<td>17</td>
</tr>
<tr>
<td>Natural Science</td>
<td>77</td>
</tr>
<tr>
<td>Non Discrimination Policy</td>
<td>12</td>
</tr>
<tr>
<td>Observatory</td>
<td>4</td>
</tr>
<tr>
<td>Off-Campus Programs</td>
<td>40</td>
</tr>
<tr>
<td>Orchestra</td>
<td>9</td>
</tr>
<tr>
<td>Pass-Fail Option</td>
<td>29</td>
</tr>
<tr>
<td>Payments</td>
<td>16</td>
</tr>
</tbody>
</table>
Pell Grants ........................................ 17
Philosophy ........................................ 77
Physical Education .............................. 78
Physical Science ................................. 80
Physics ............................................. 81
Political Science ................................. 82
Pre-Dental .......................................... 31
Pre-Legal ............................................ 31
Pre-Medical ........................................ 31
Pre-Nursing ........................................ 31
Pre-Optometry .................................... 31
Pre-Pharmacy ..................................... 31
Pre-Physical Therapy ......................... 31
Pre-Seminary ...................................... 31
Pre-Veterinarian .................................. 31
Programs of Study .............................. 31
Psychology ......................................... 83
Radio Station ...................................... 4
Reading ............................................. 85
Refunds ............................................. 16
Registration ........................................ 13
Repeating Courses .............................. 28
Room & Board ...................................... 15, 16
Scholarships ....................................... 21
Freshman .......................................... 21
Upper Class ....................................... 21
National Merit ..................................... 22
Secondary Education ......................... 38
Secretarial Science ............................. 85
Social Activities ................................. 8
Social Science .................................... 86
Social Work ....................................... 87
Social Work Program ......................... 33
Sociology .......................................... 87
Spanish ............................................ 89
Special Programs ............................... 19
Special Student .................................. 13
Student Activities .............................. 7
Student Load ..................................... 27
Student Services ............................... 10
Sunday Worship .................................. 7
Teacher Certification ......................... 37
Teacher Education Program ................. 36
Theatre Arts ...................................... 90
Theology ......................................... 92
Transcripts ........................................ 30
Transfer Admissions ......................... 13
Tuition ............................................. 14
Veteran’s Benefits .............................. 20
Withdrawal ........................................ 28
Work-Study Program ......................... 18